SCHEMATIC DIAGRAM

MODEL : 42WP46P

WARNING: BEFORE SERVICING THIS CHASSIS, READ THE "X-RAY RADIATION PRECAUTION", "SAFETY PRECAUTION" AND "PRODUCT SAFETY NOTICE" ON THE MANUAL FOR THIS MODEL.

CAUTION: The international hazard symbols "⚠" in the schematic diagram and the parts list designate components which have special characteristics important for safety and should be replaced only with types identical to those in the original circuit or specified in the parts list. The mounting position of replacements is to be identical with originals. Before replacing any of these components, read carefully the PRODUCT SAFETY NOTICE on the MANUAL for this model. Do not degrade the safety of the receiver through improper servicing.

NOTE:

1. RESISTOR Resistance is shown in ohm [K = 1.000, M = 1.000.000]. All resistors are 1/6W and 5% tolerance carbon resistor, unless otherwise noted as the following marks.
   1/2R = Metal or Metal oxide of 1/2 watt
   1/2S = Carbon compsistion of 1/2 watt
   1RF = Fuse resistor of 1 watt
   10W = Cement of 10 watt
   K = ±10% G = ±2% F = ±1%
2. CAPACITOR Unless otherwise noted in schematic, all capacitor values less than 1 are expressed in μF, and the values more than 1 in pF.
   All capacitors are ceramic 50V, unless otherwise noted as the following marks.
   —+||— Electolytic capacitor
   —Ⓜ||— Mylar capacitor
3. The parts indicated with " ⚠ " have special characteristics, and should be replaced with identical parts only.
4. Voltages read with DIGITAL MULTI-METER from point indicated to chassing ground, using a color bar signal with all controls at normal, line voltage 220 volts.
5. Waveforms are taken receiving color bar signal with enough sensitivity.
6. Voltage reading shown are nominal values and may vary ±20% except H.V.

■ SCHEMATIC DIAGRAM STRUCTURE:

- CONNECTION 1/60
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  - (MSP+BBE) [SHEET-3/12] 4/60
  - (AV) [SHEET-4/12] 5/60
  - (GAIN) [SHEET-5/12] 6/60
  - (TIF) [SHEET-6/12] 7/60
  - (AUDIO MUTE) [SHEET-7/12] 8/60
  - (AUDIO SW) [SHEET-8/12] 9/60
  - (9/12) [SHEET-9/12] 10/60
  - (10/12) [SHEET-10/12] 11/60
  - (11/12) [SHEET-11/12] 12/60
  - (12/12) [SHEET-12/12] 13/60
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- KEY
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  - (LED/RMT) [SHEET-2/3] 16/60
  - (POWER SW) [SHEET-3/3] 17/60
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    - (8/9) [SHEET-708] 59/60
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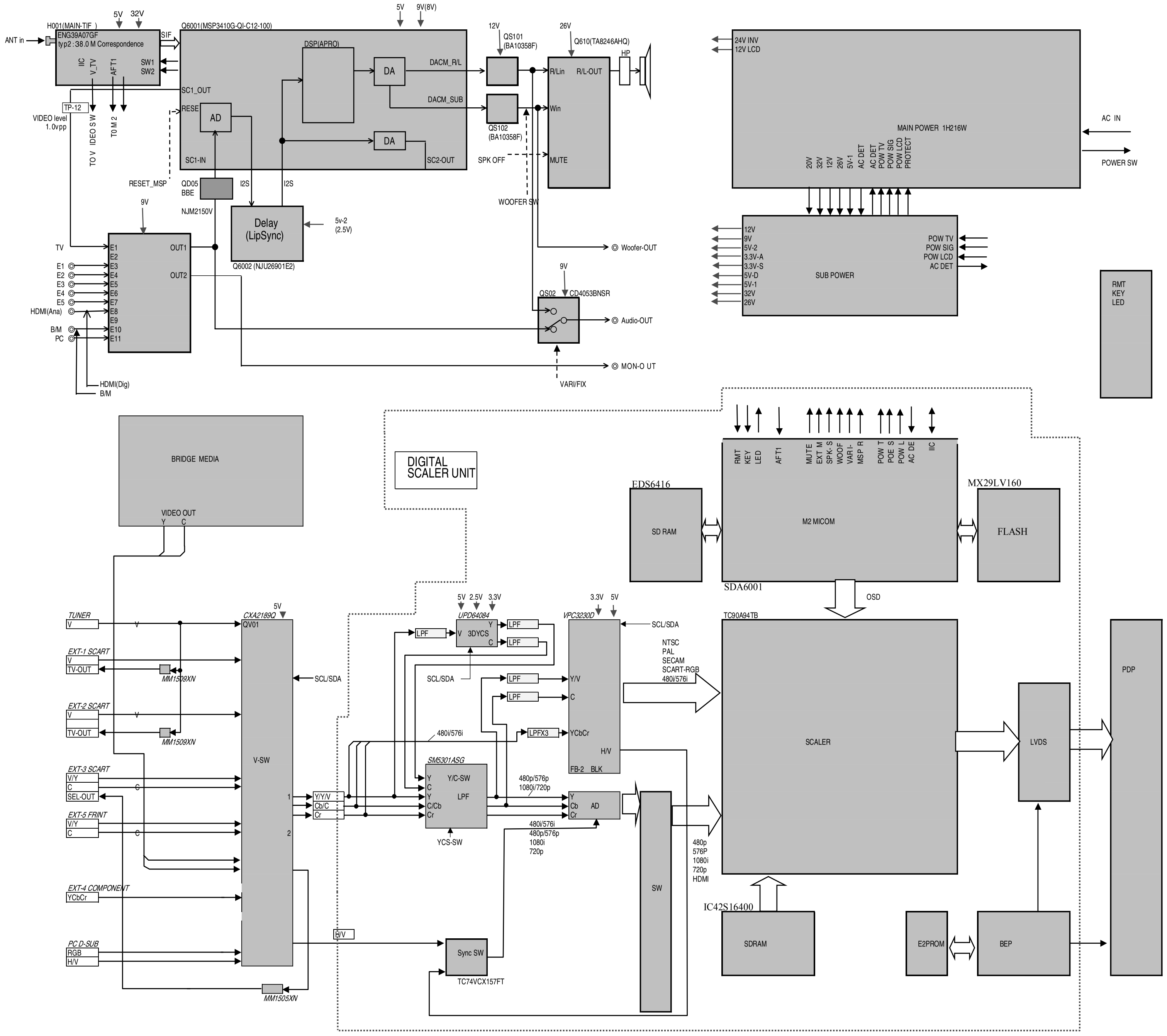
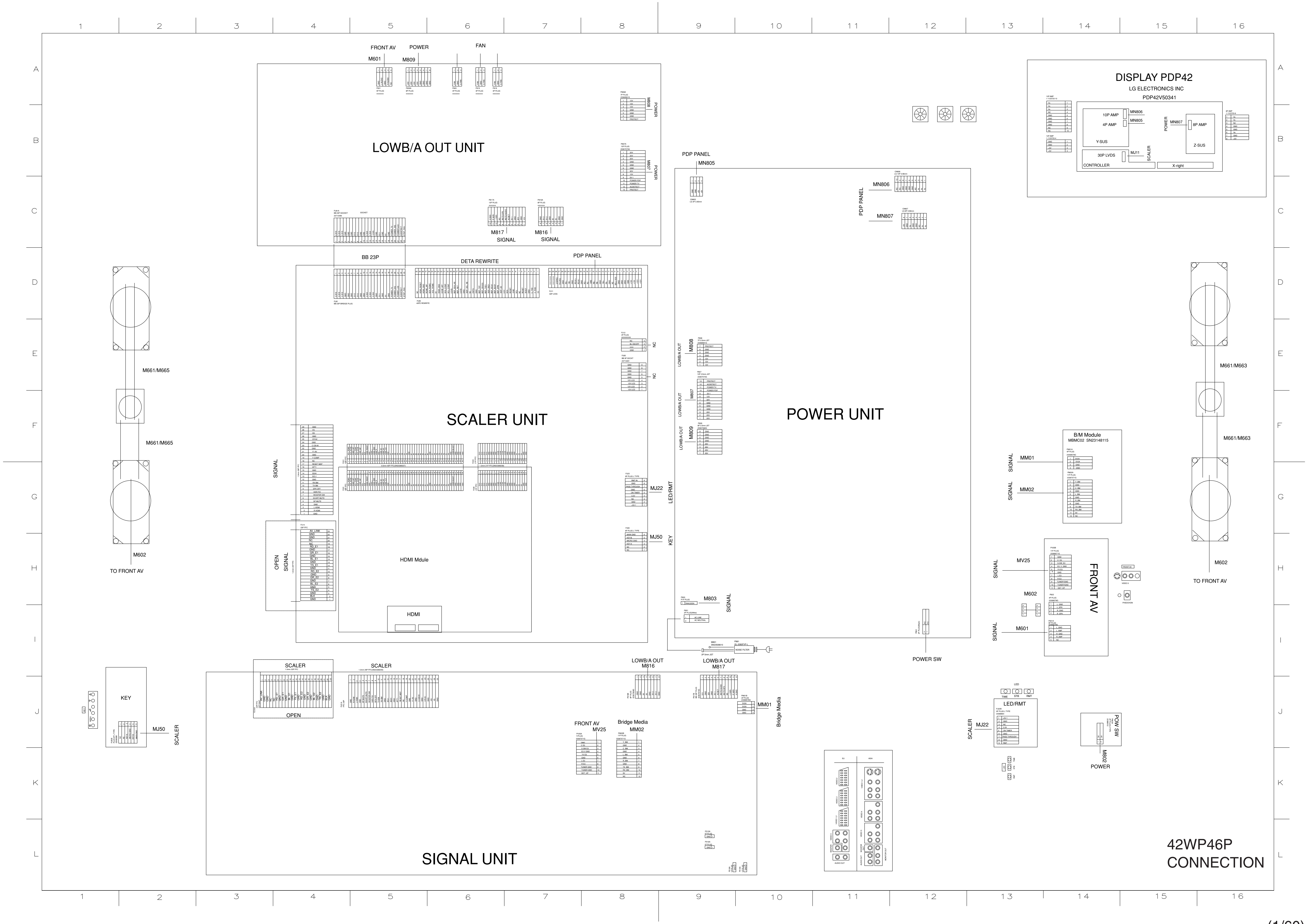
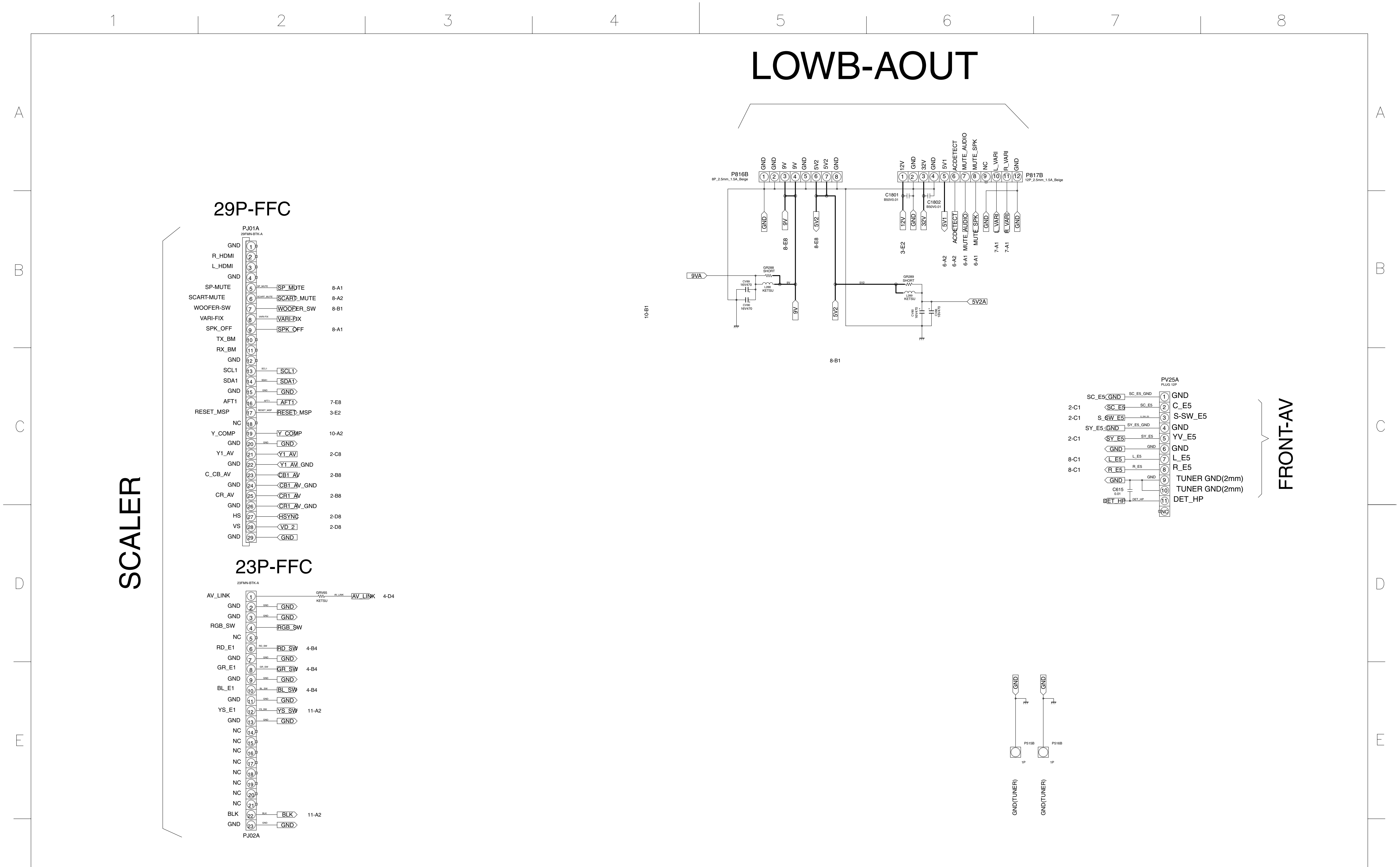
CIRCUIT BLOCK DIAGRAM

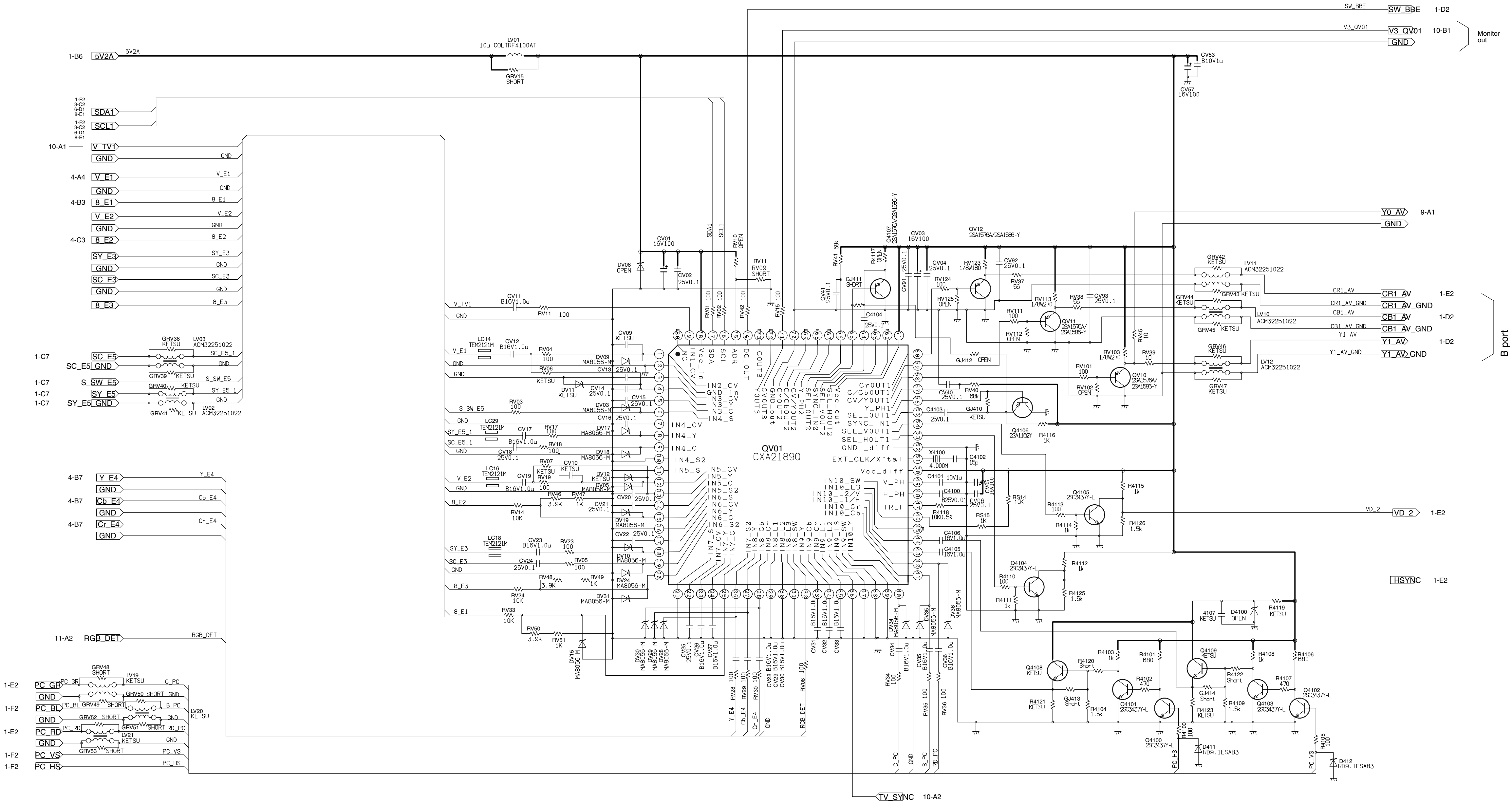




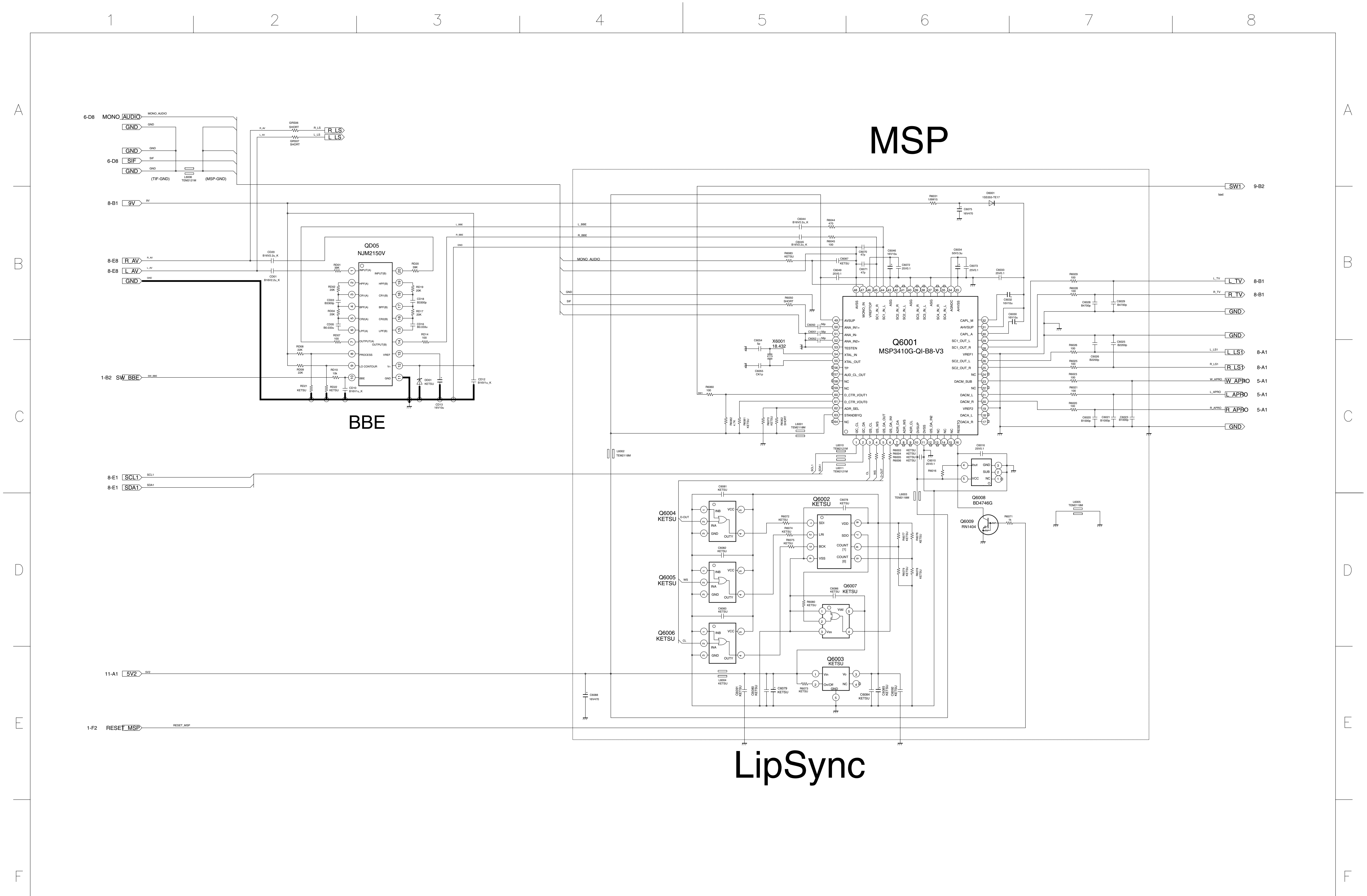
42WP46P
CONNECTION



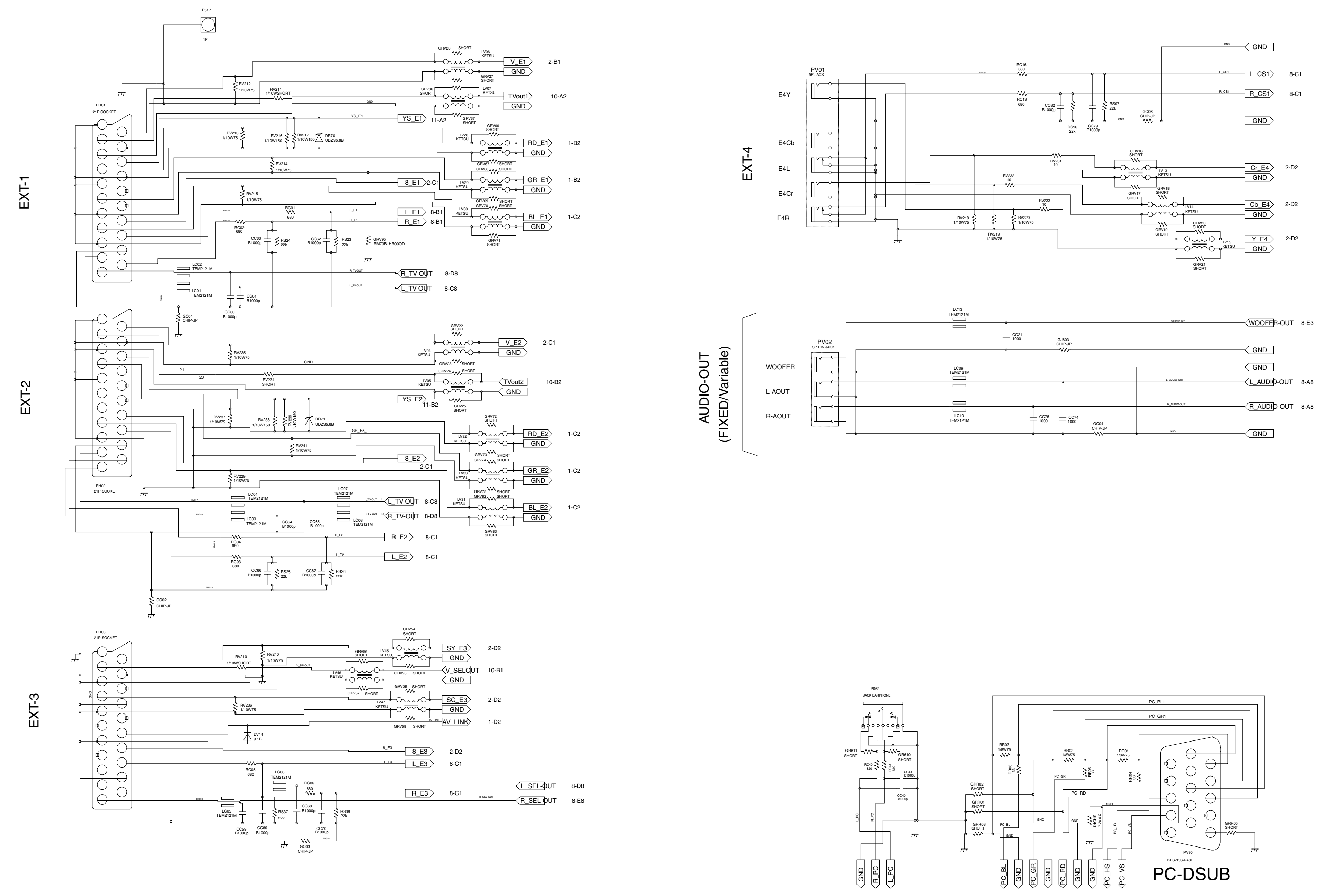
42WP46P
SIGNAL (1/12)
SHEET-1/12



42WP46P
SIGNAL (VIDEO SW)
SHEET-2/12



42WP46P
SIGNAL (MSP+BBE)
SHEET-3/12



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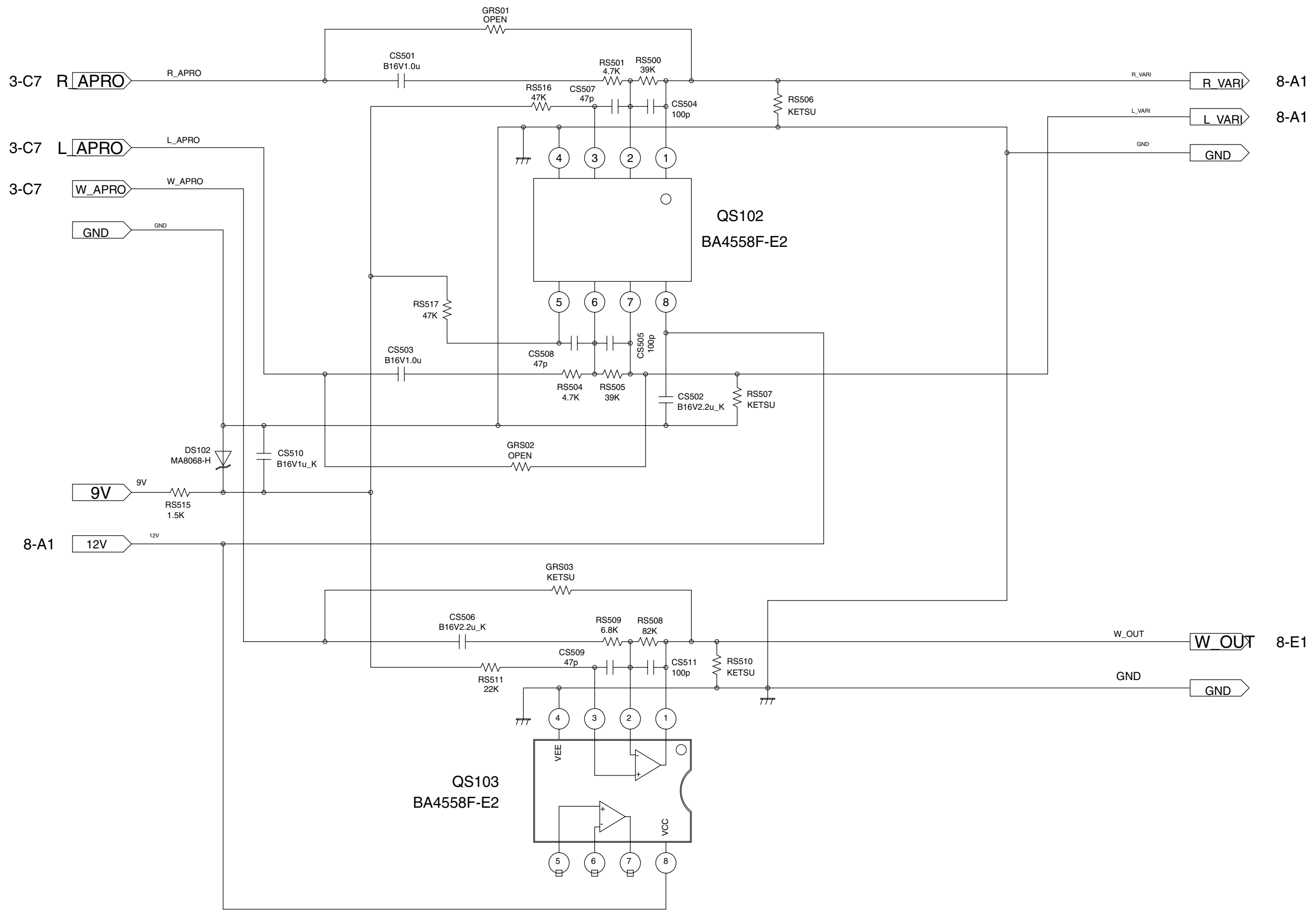
SIGNAL (AV)
SHEET-4/12



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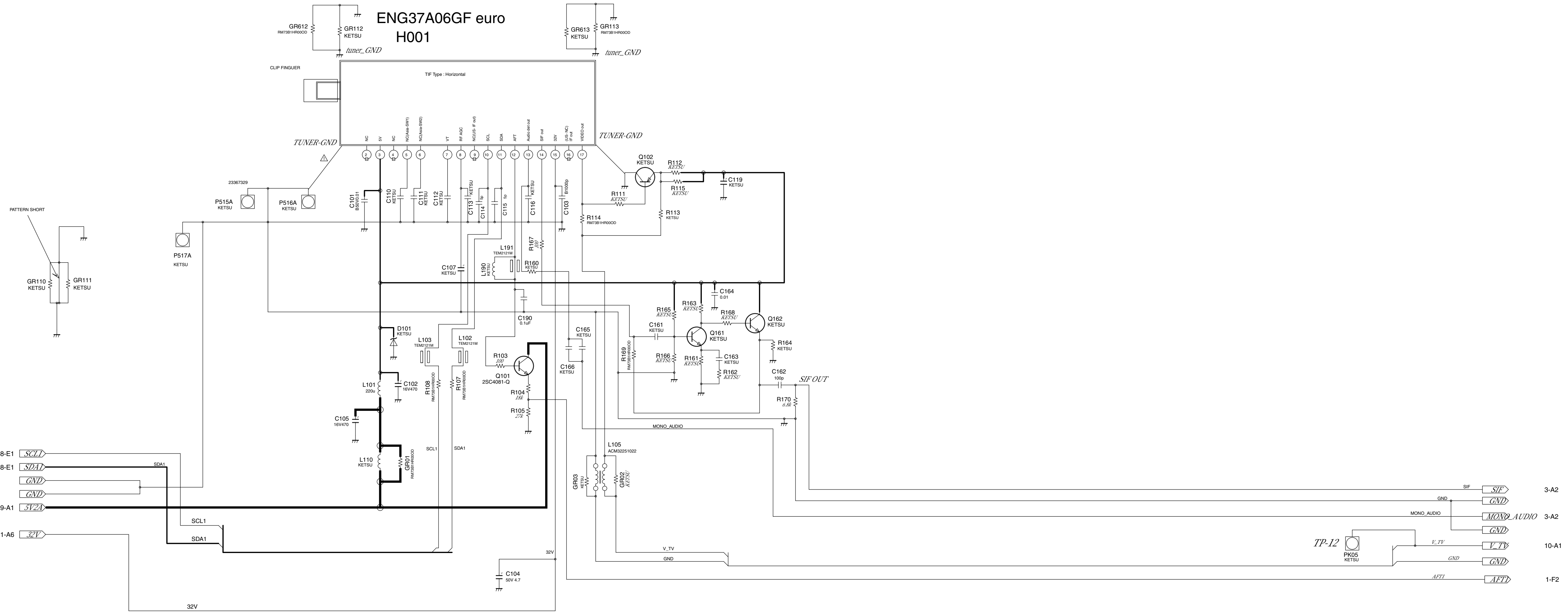
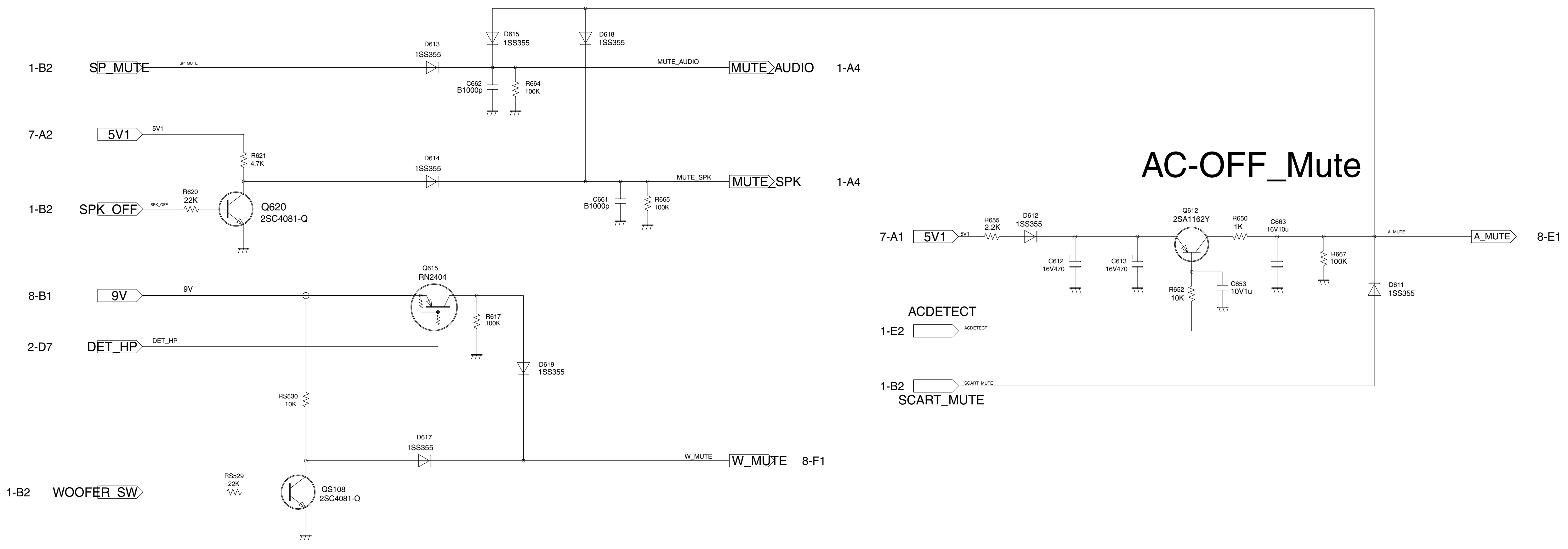
SIGNAL (GAIN)
SHEET-5/12



42WP46P
SIGNAL (TIF)
SHEET-6/12



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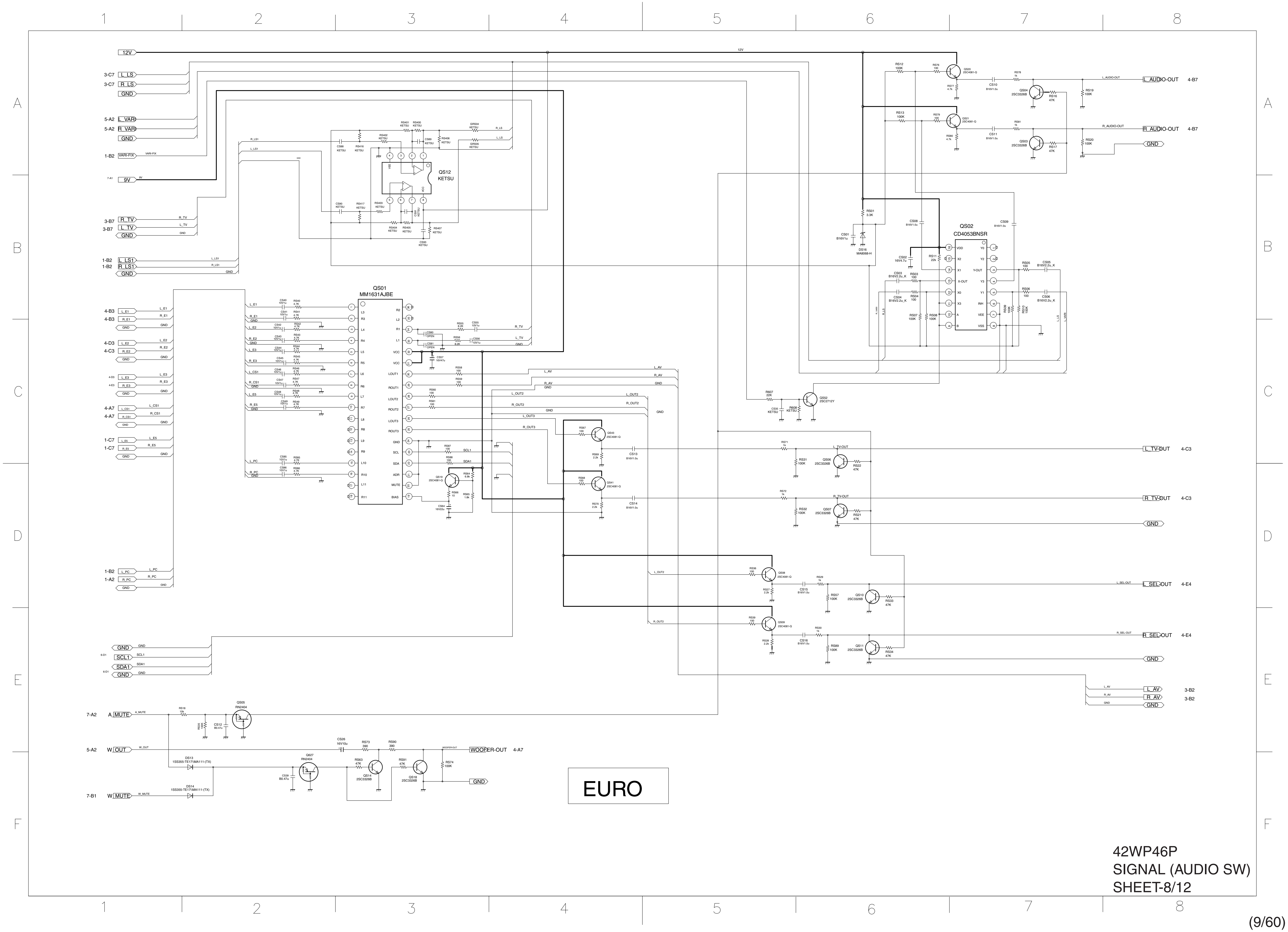
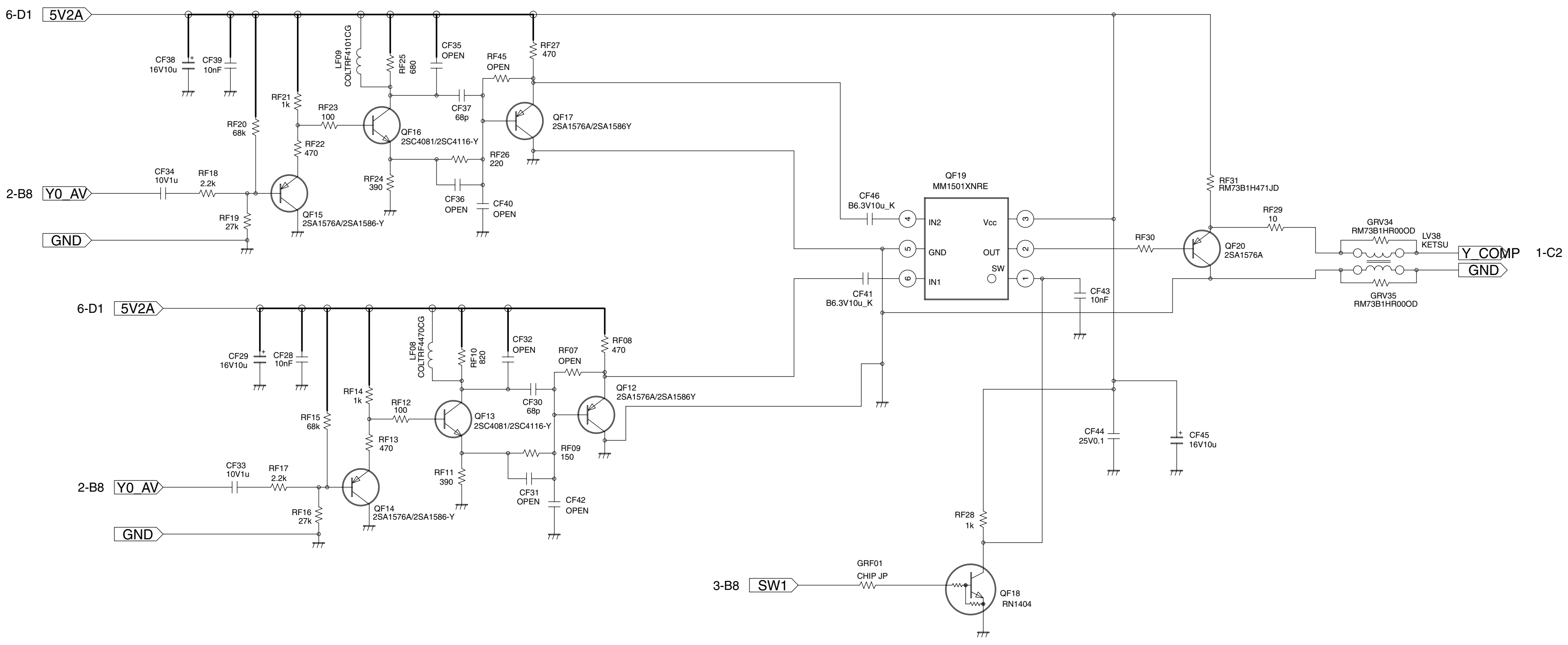
SIGNAL (AUDIO MUTE)
SHEET-7/12



42WP46P
SIGNAL (AUDIO SW)
SHEET-8/12



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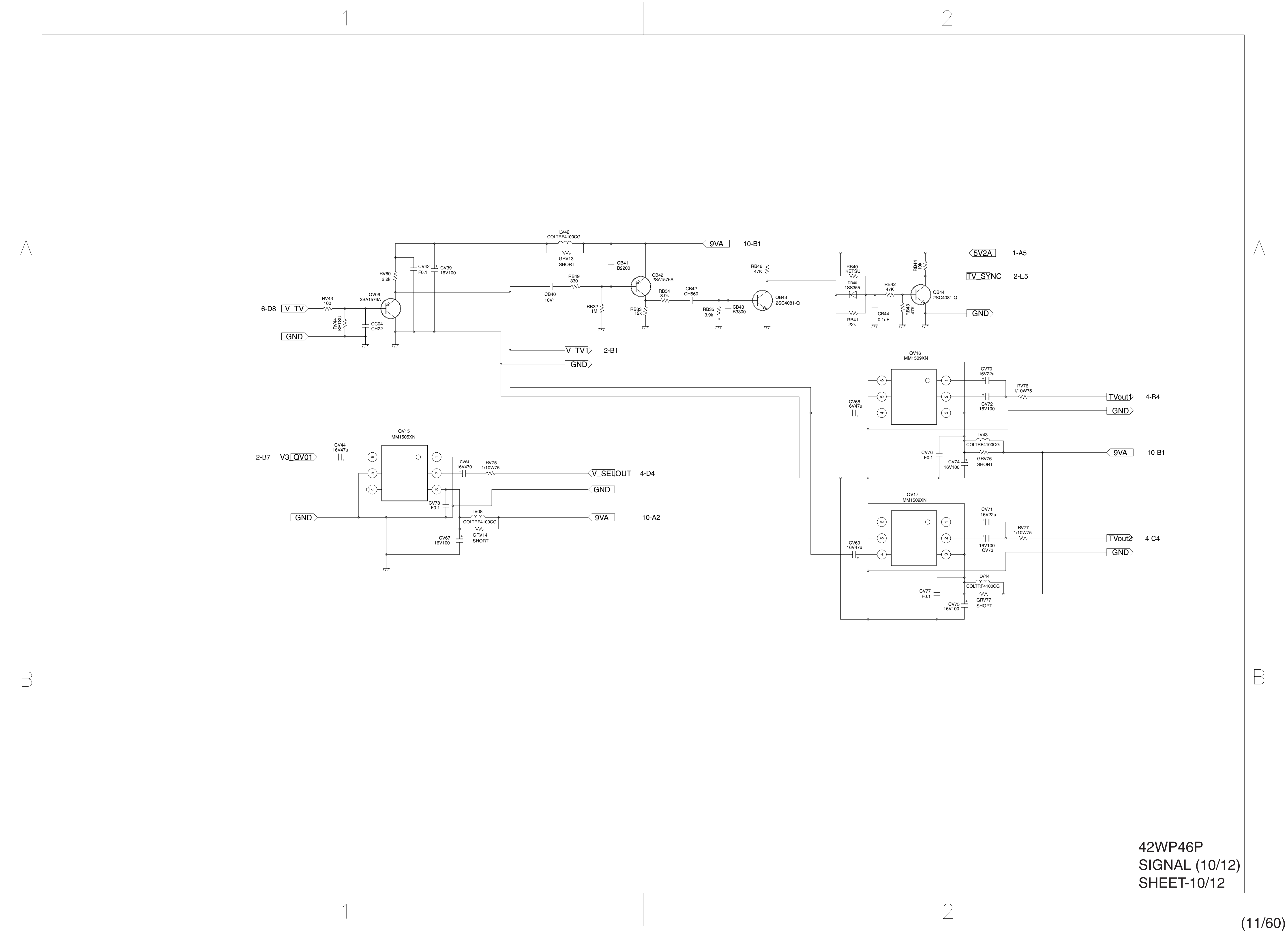
SIGNAL (9/12)
SHEET-9/12



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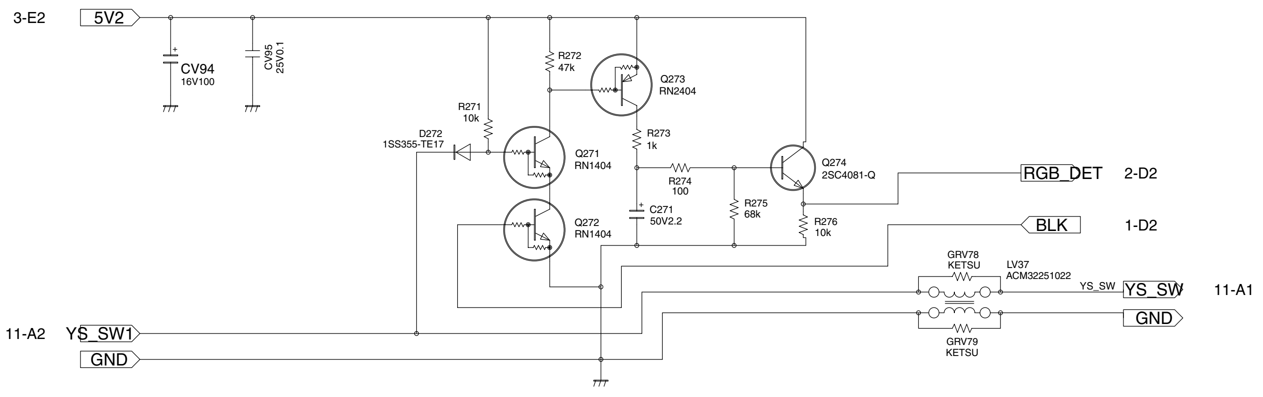
SIGNAL (10/12)
SHEET-10/12



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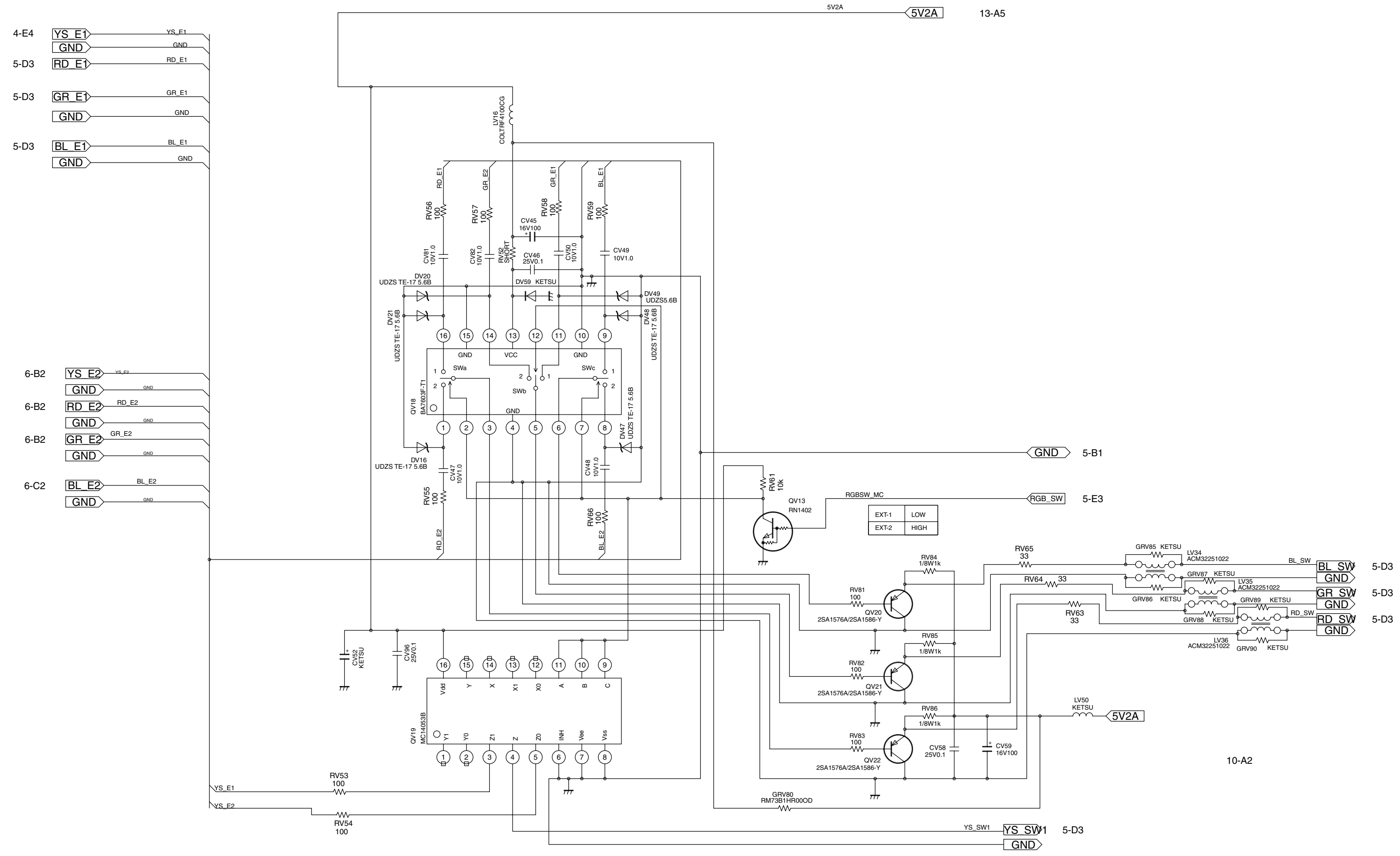
SIGNAL (11/12)
SHEET-11/12



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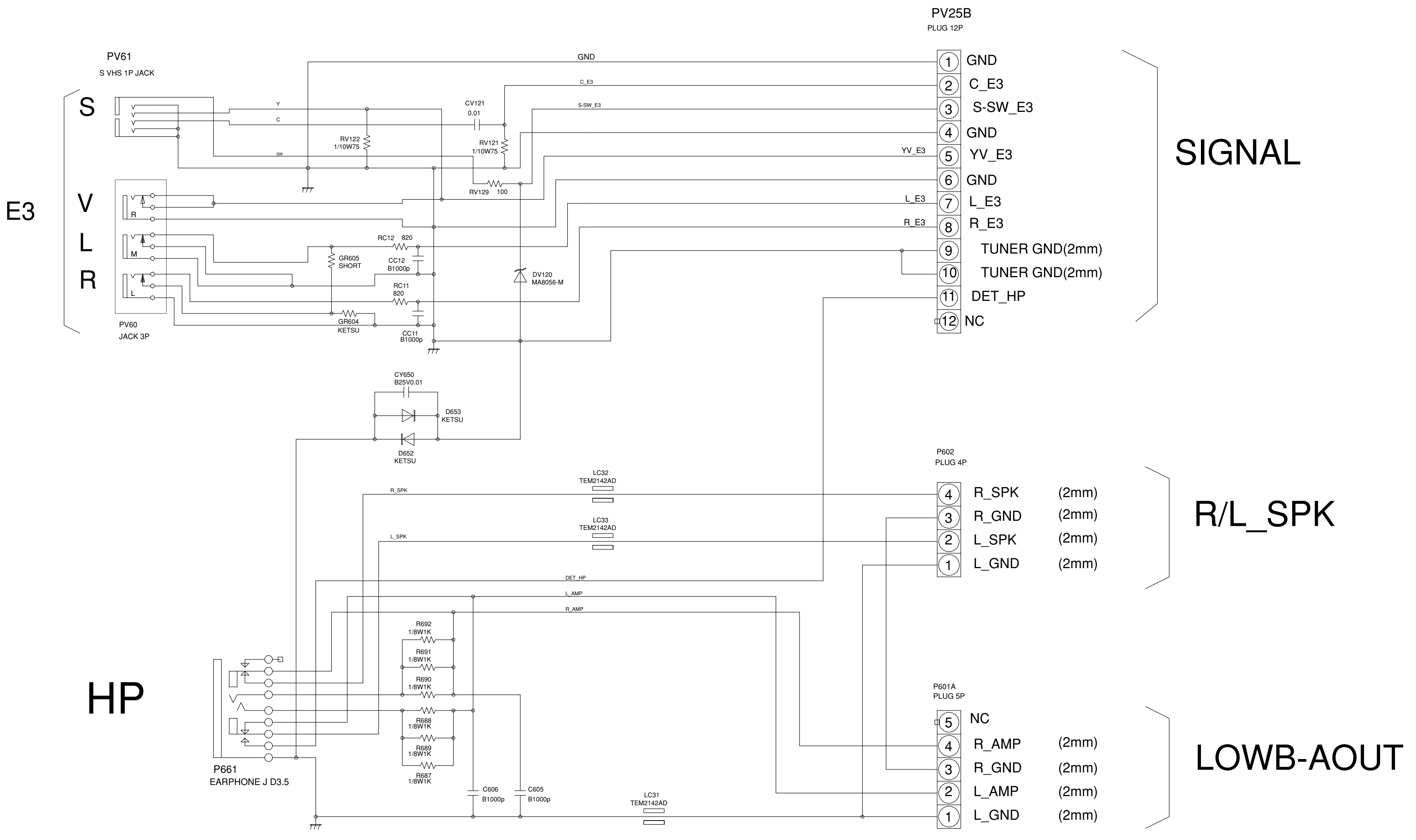
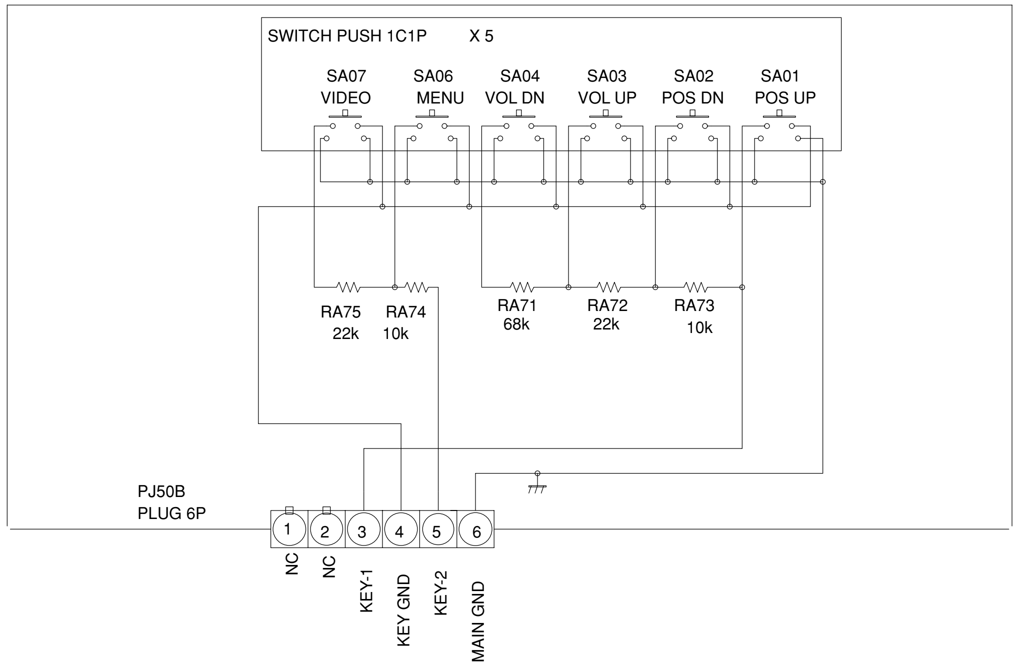
SIGNAL (12/12)
SHEET-12/12



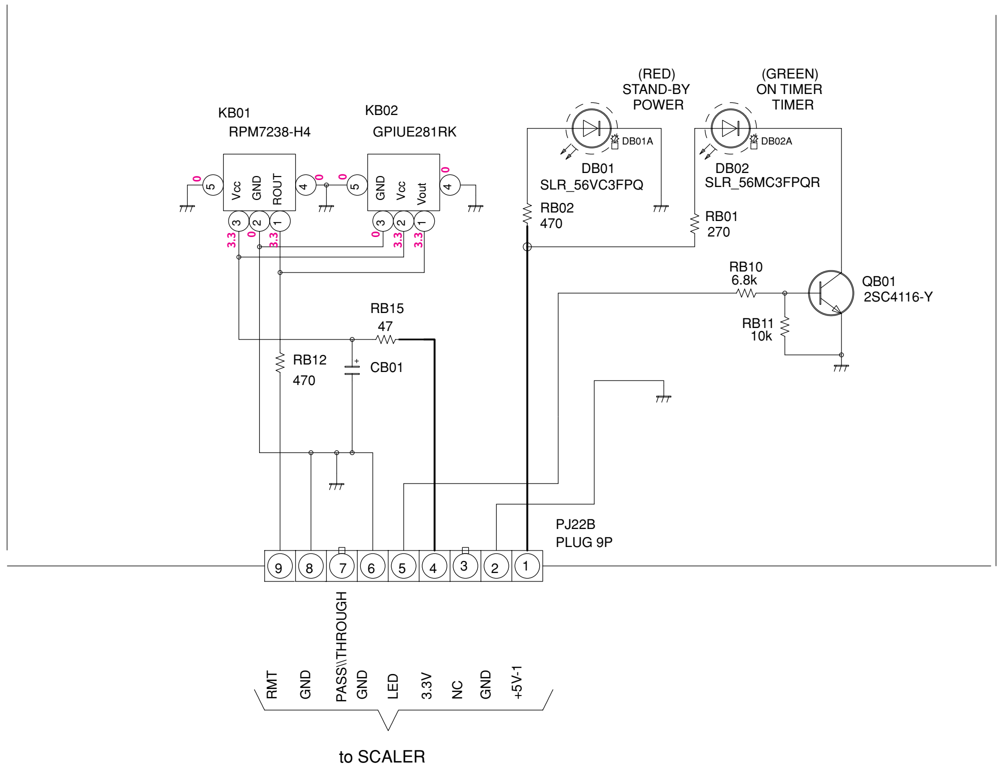
A A

B B

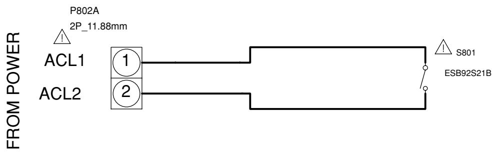
42WP46P
FRONT AV



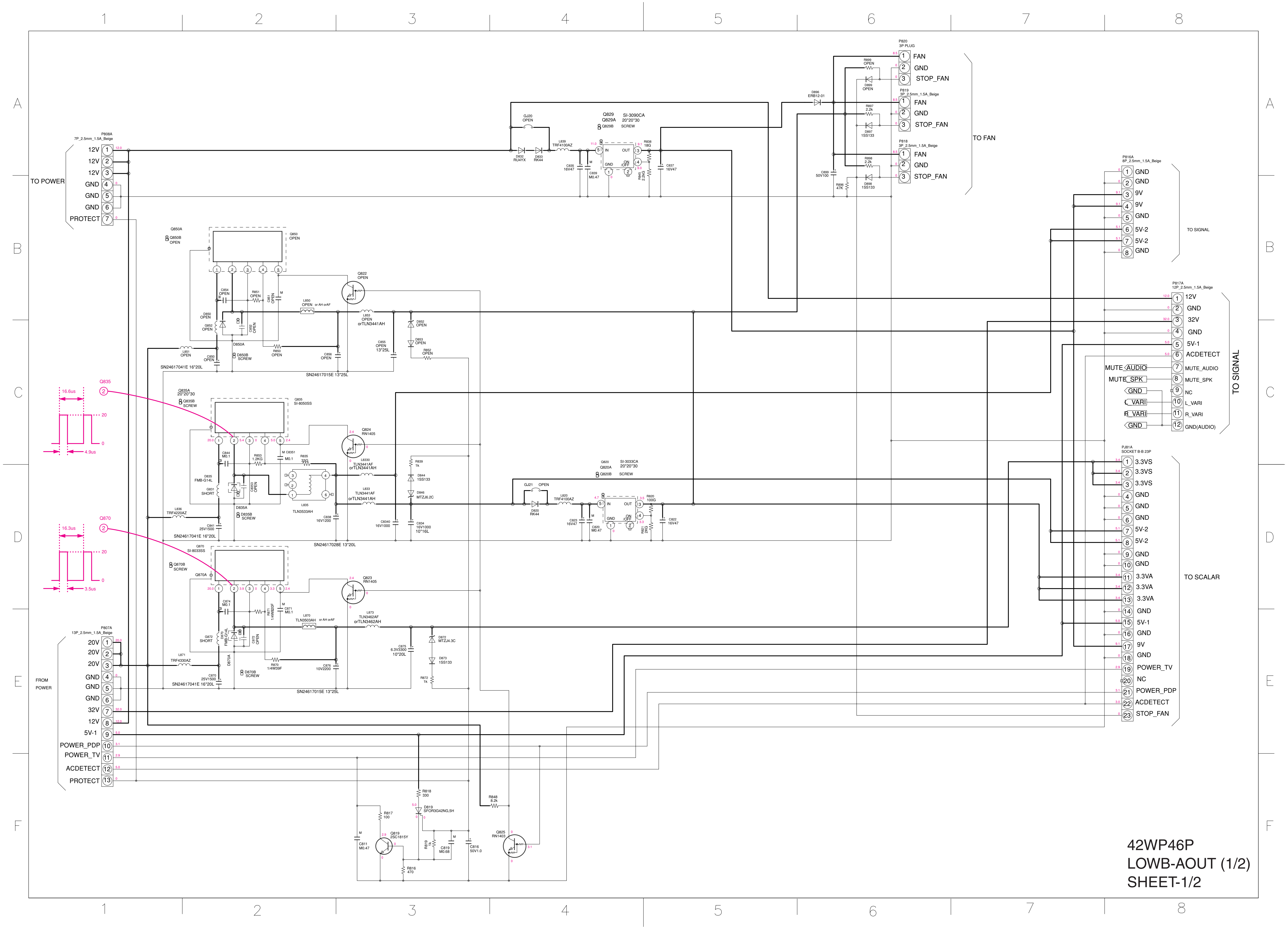
42WP46P
KEY (KEY)
SHEET-1/3



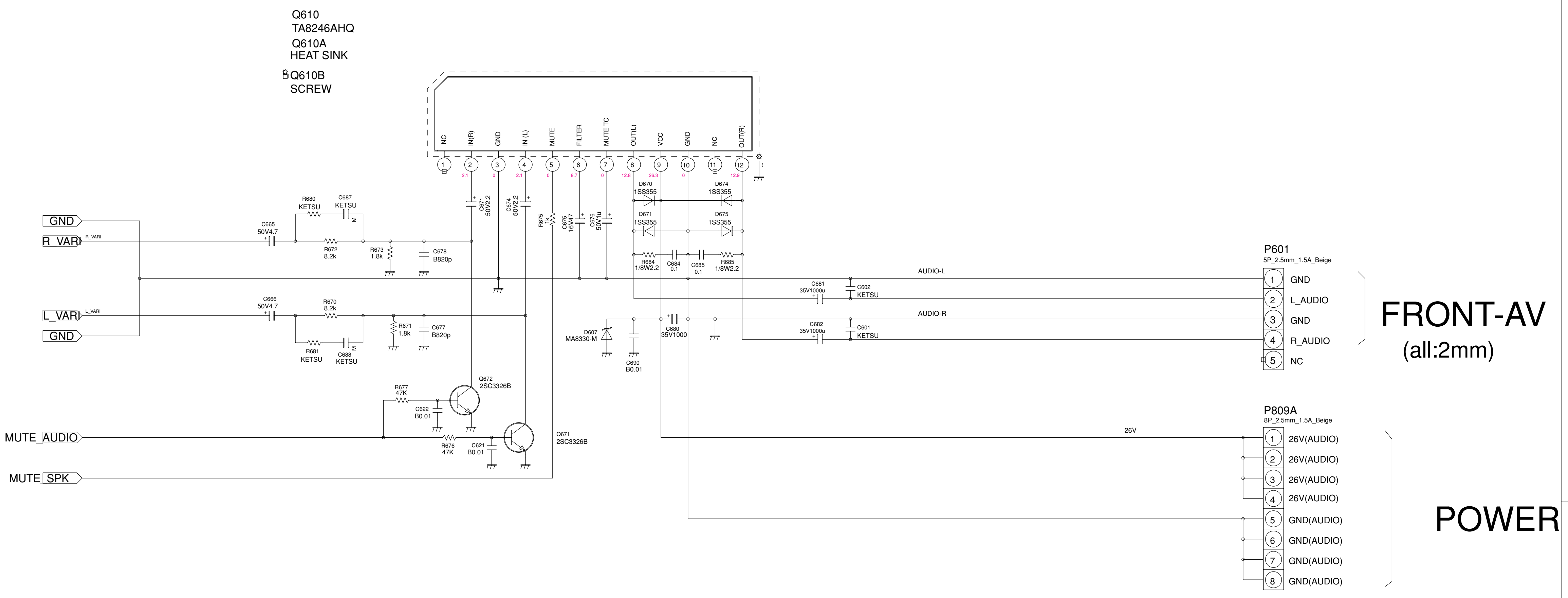
42WP46P
KEY (LED/RMT)
SHEET-2/3



42WP46P
KEY (POWER SW)
SHEET-3/3



42WP46P
LOWB-AOUT (1/2)
SHEET-1/2



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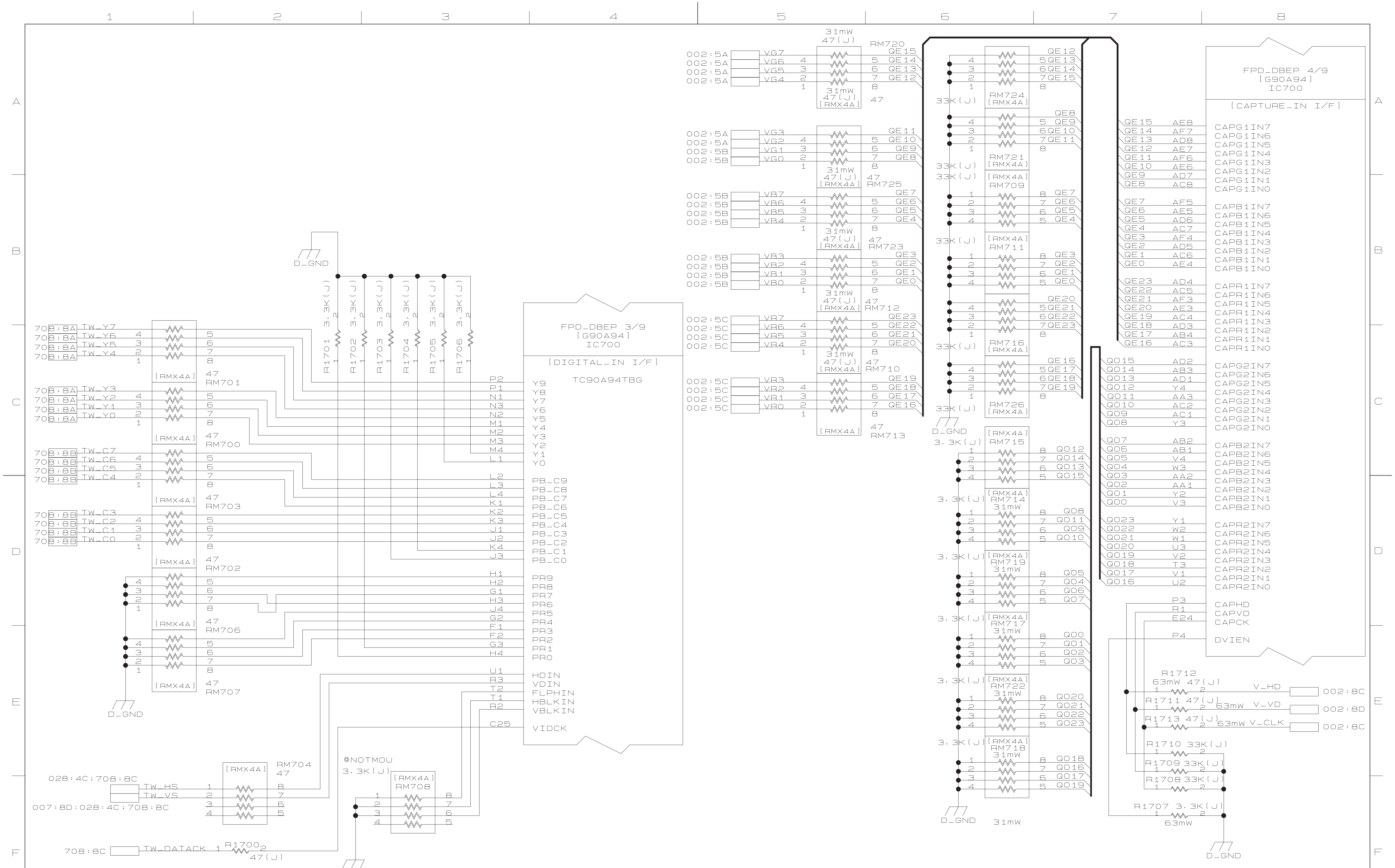
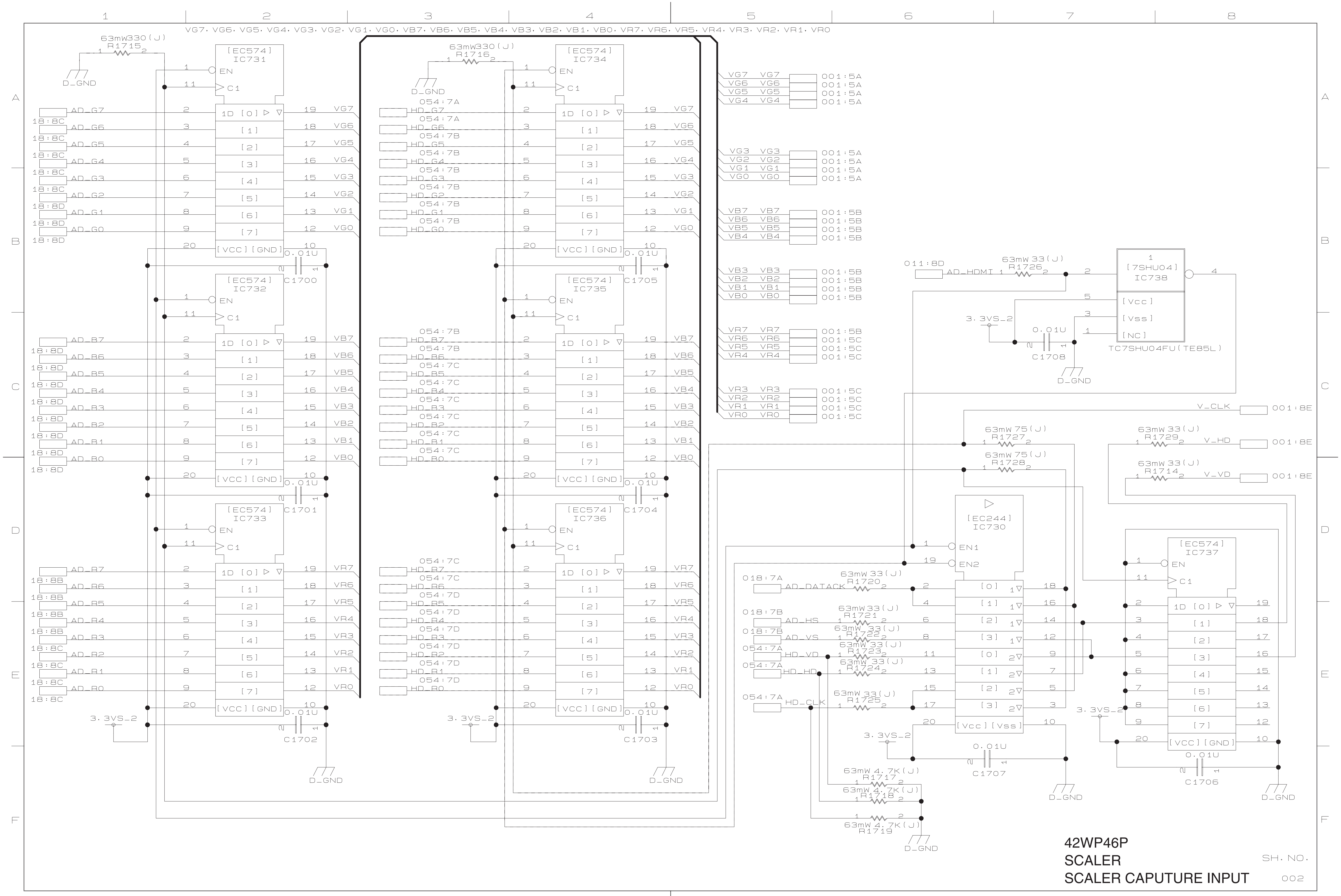
LOWB-AOUT (2/2)
SHEET-2/2



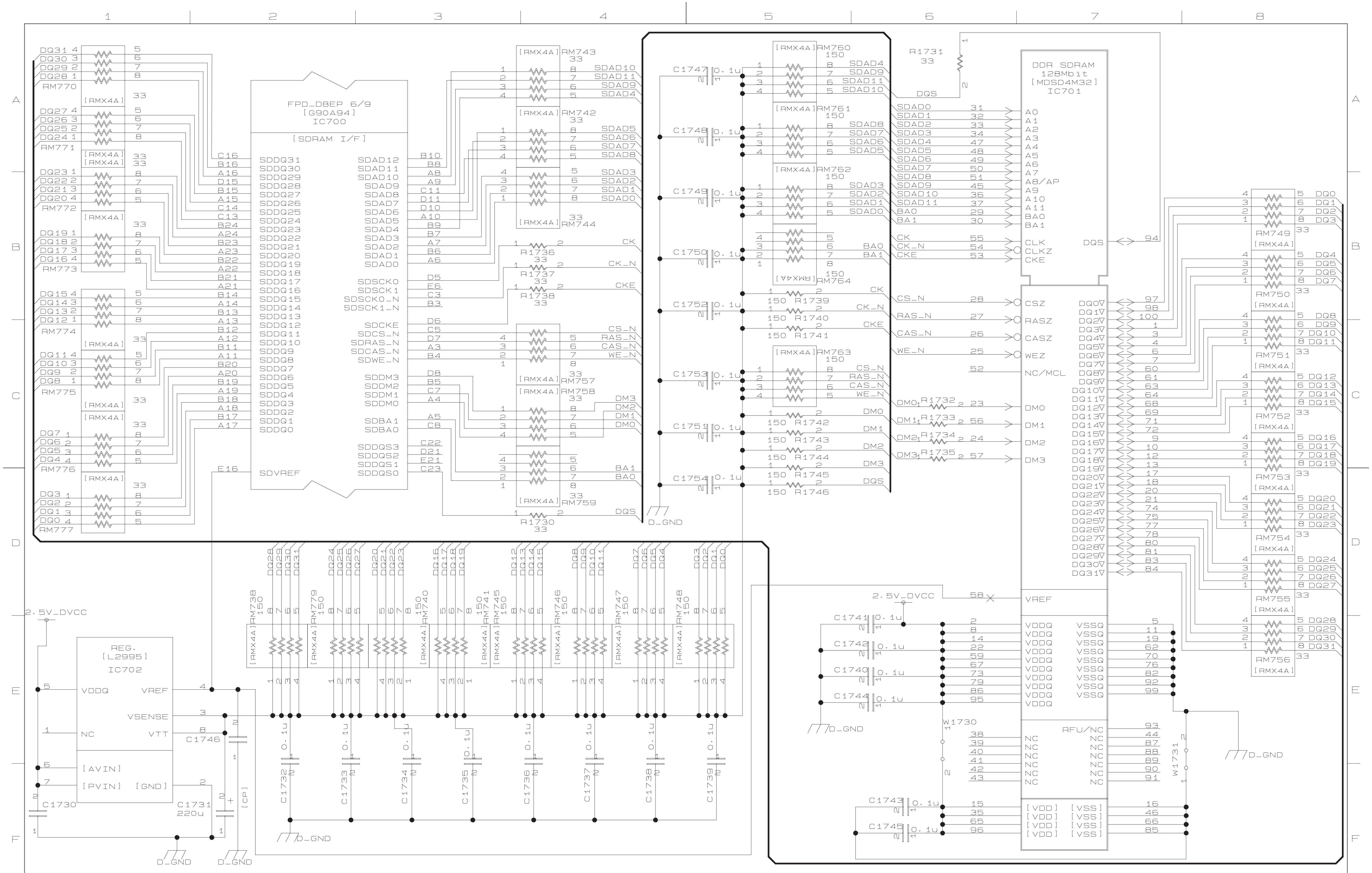
42WP46P
SCALER
SCALER DIGITAL INPUT

SH. NO.
001



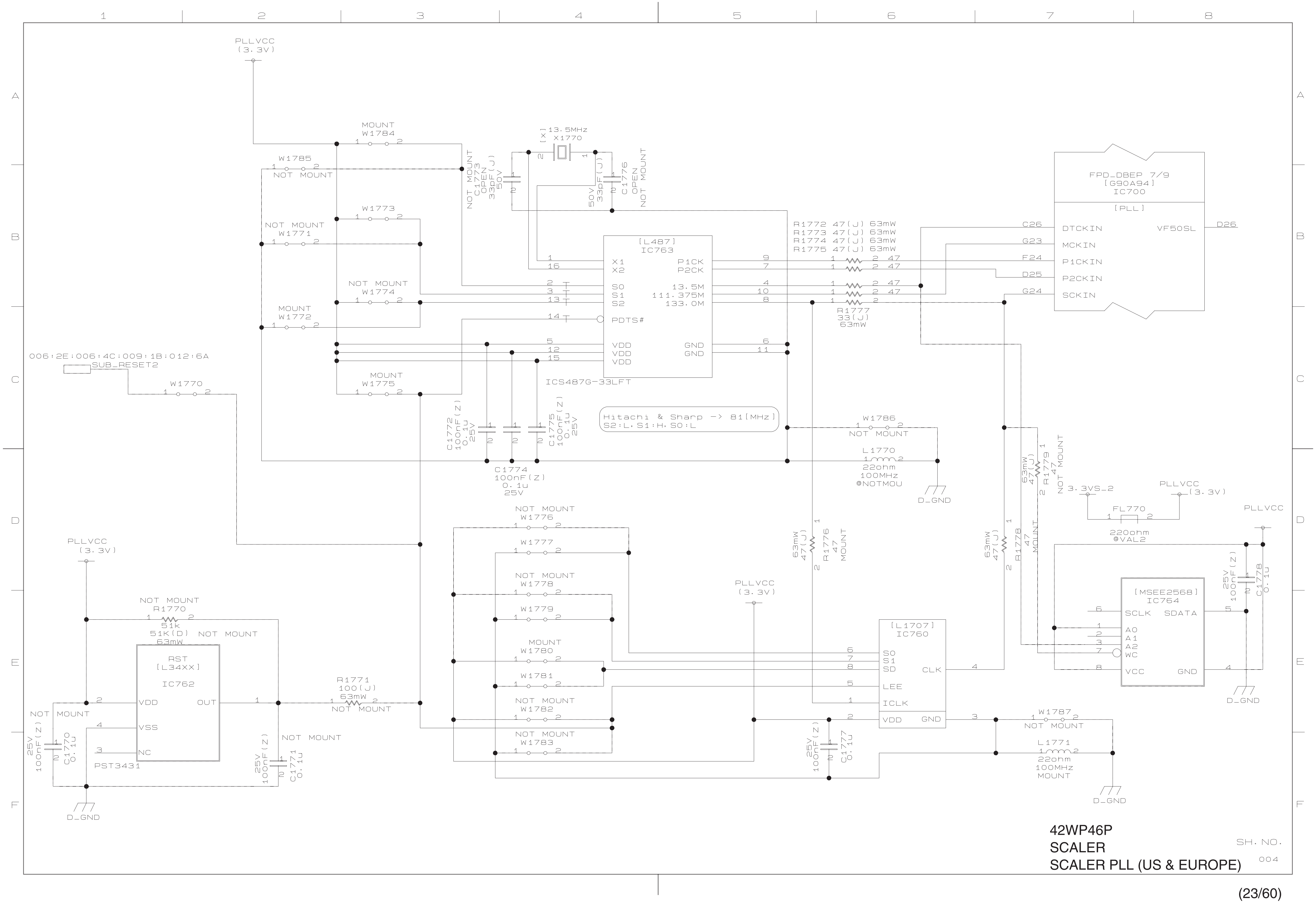
42WP46P
SCALER
SCALER CAPUTURE INPUT

SH. NO.
002



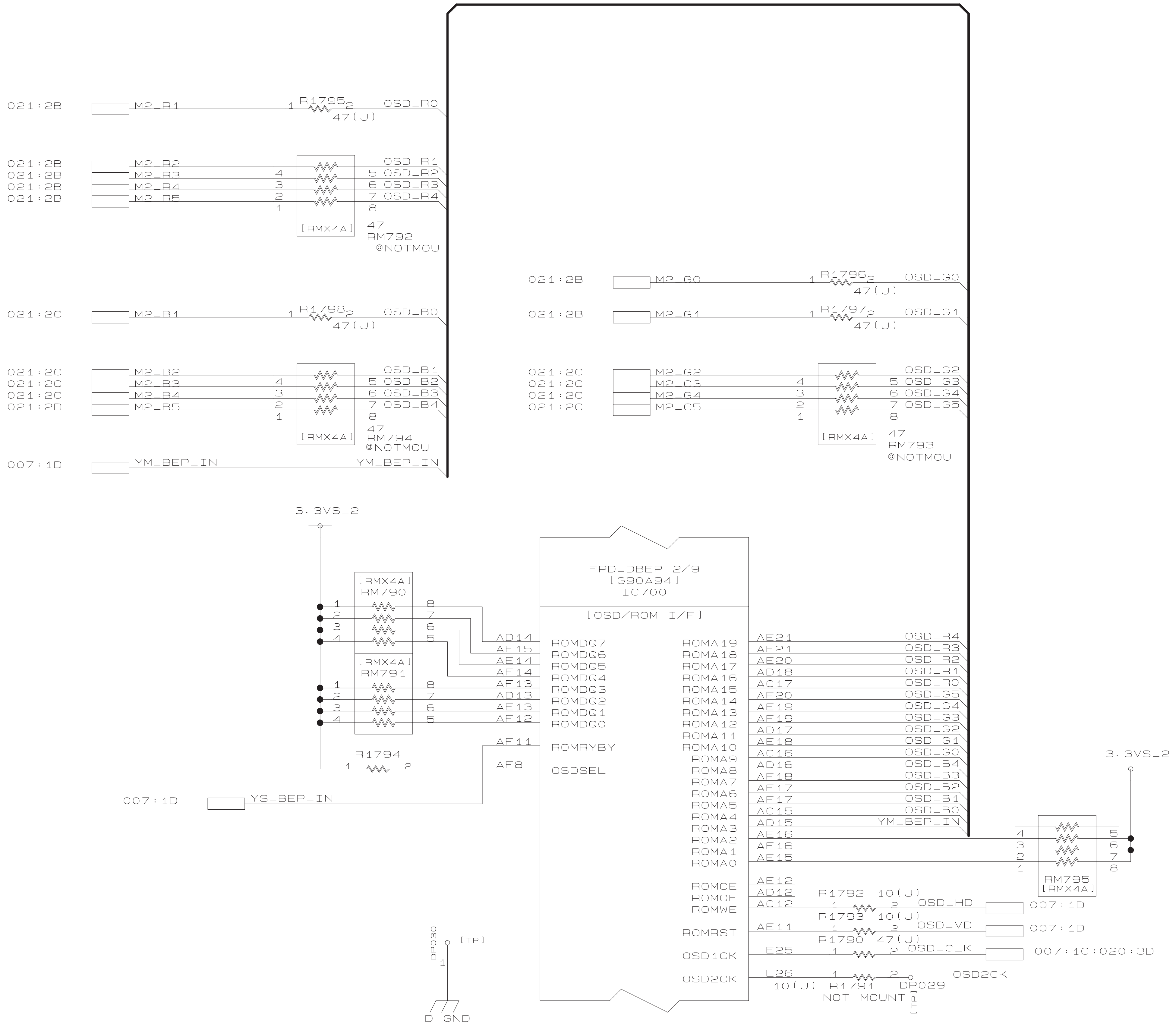
42WP46P
SCALER MEMORY CONNECTION

SH. NO.
003



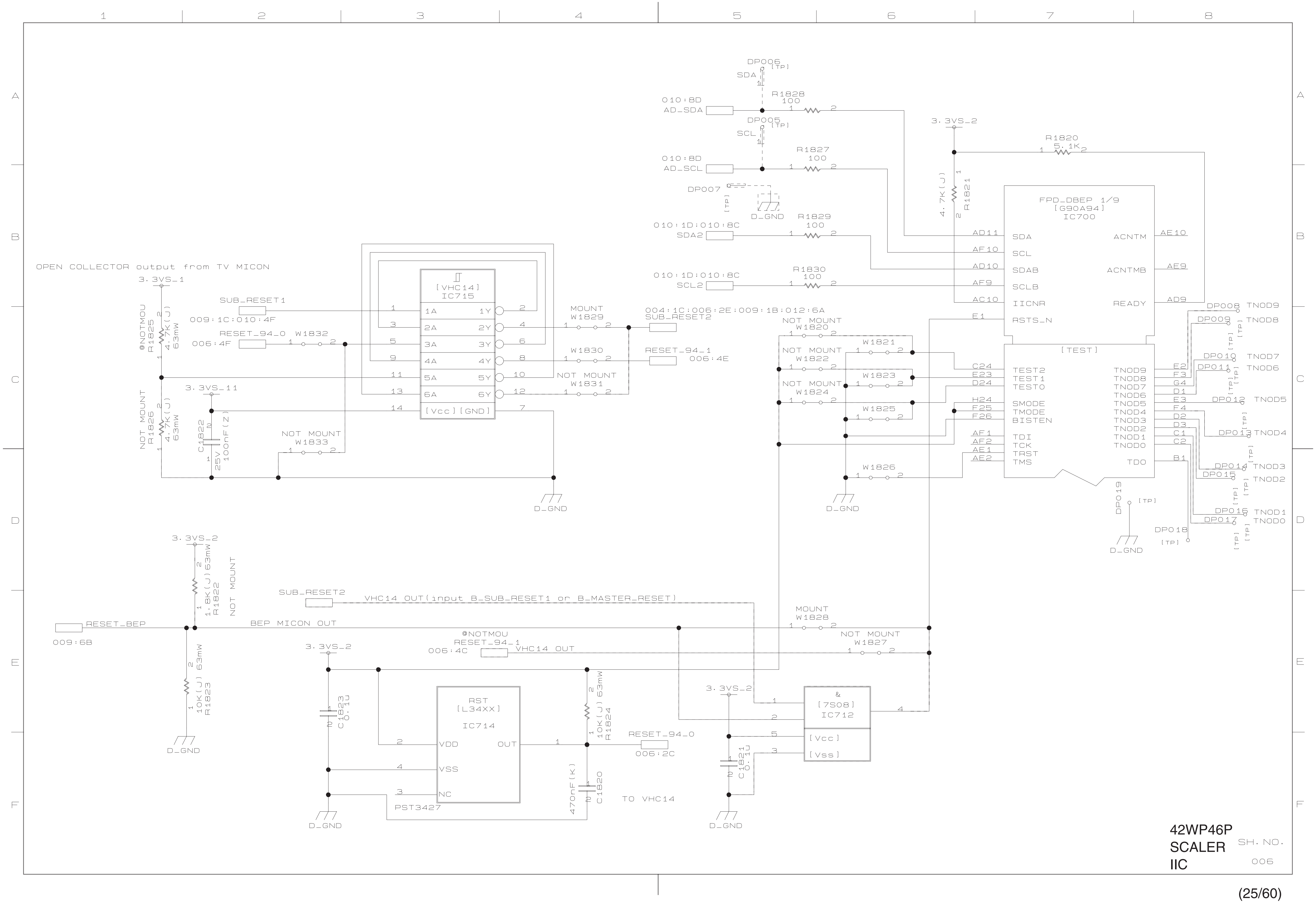
42WP46P
SCALER
SCALER PLL (US & EUROPE)

SH. NO.
004



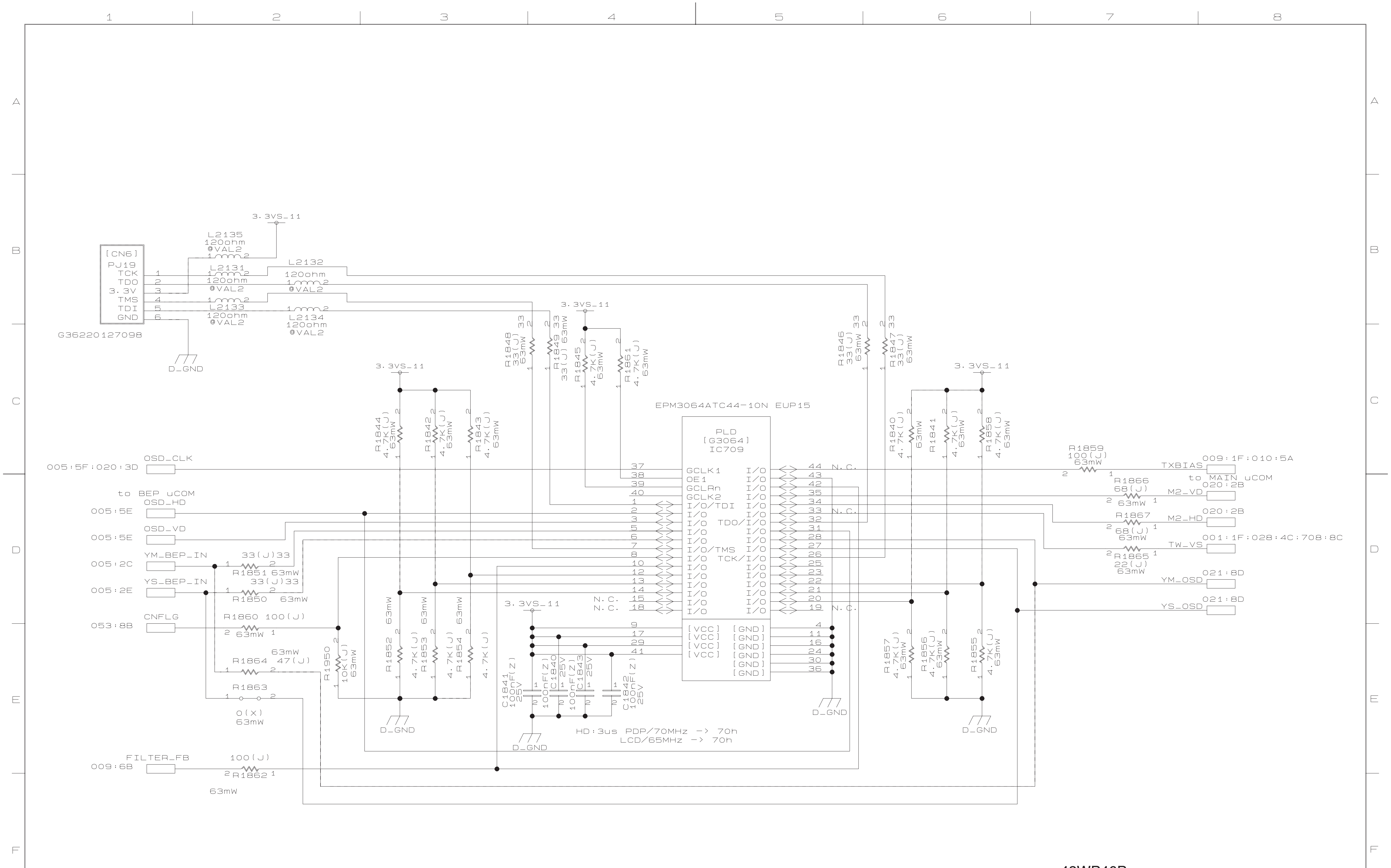
42WP46P
SCALER
OSD FOR NORTH AMERICA

SH. NO.
005



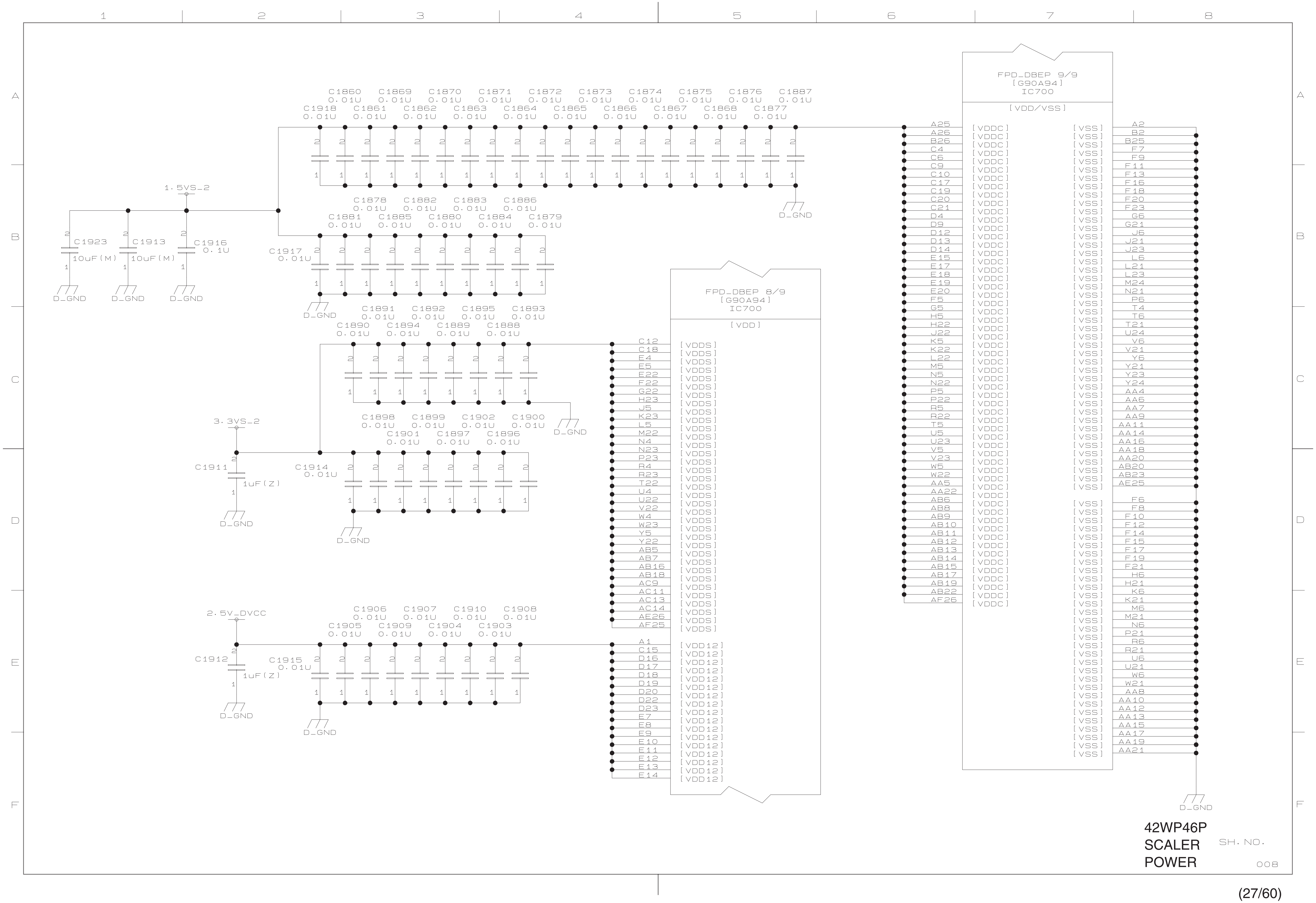
42WP46P
SCALER
IIC

SH. NO.
006



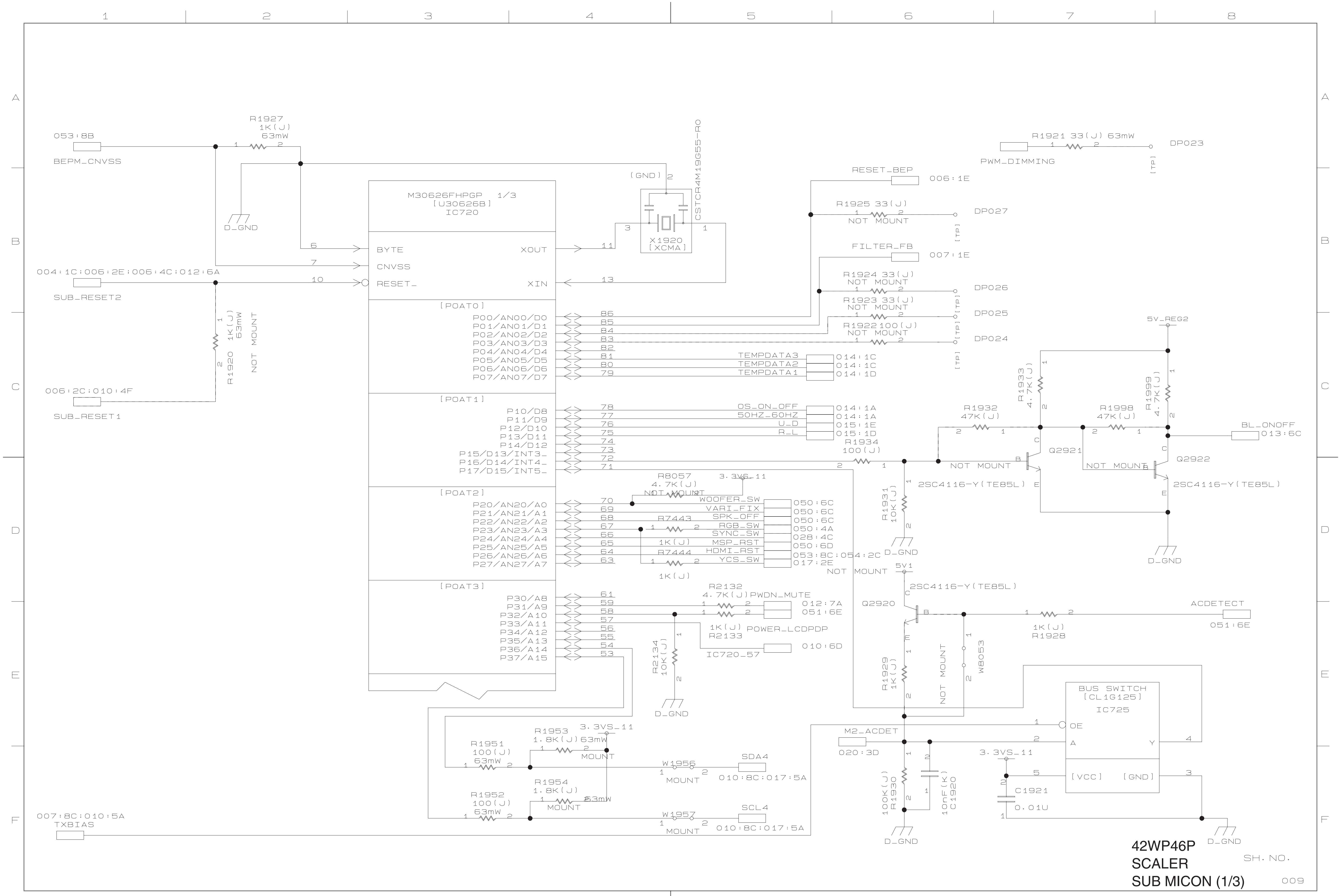
42WP46P
SCALER
PLD (US OSD SYNC GENERATOR)

SH. NO.
007

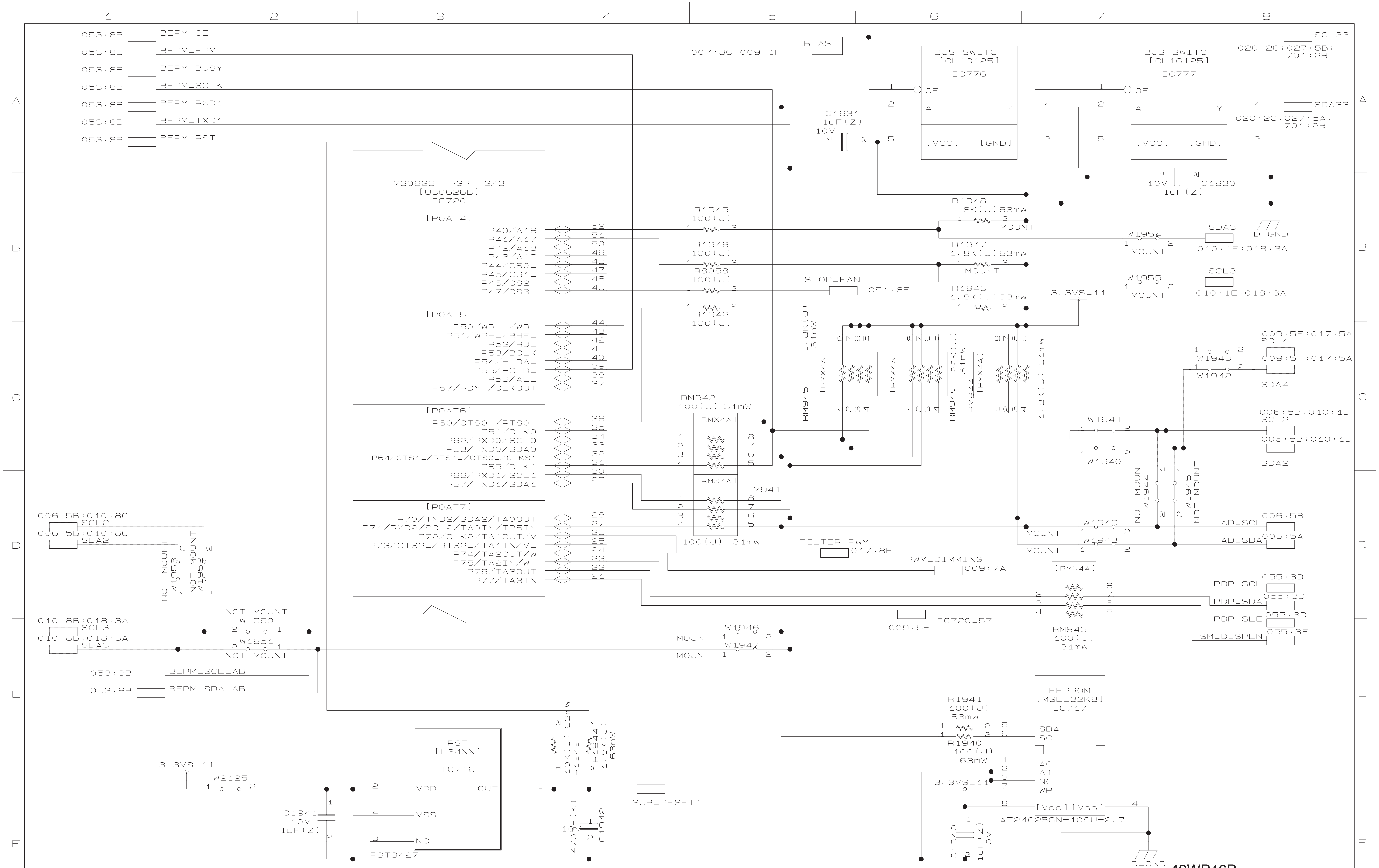


42WP46P
SCALER
POWER

SH. NO.
008

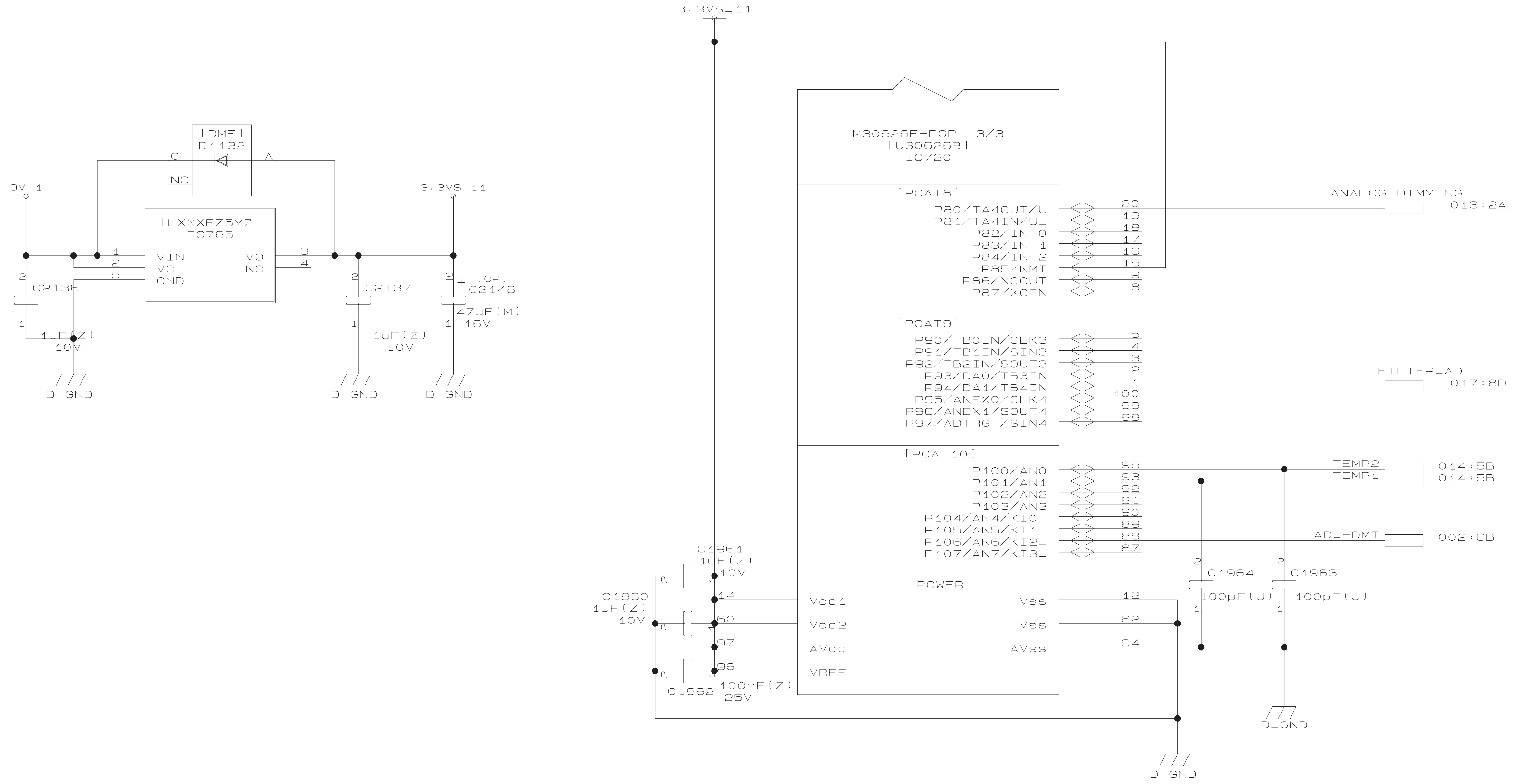


42WP46P
SCALER
SUB MICON (1/3)



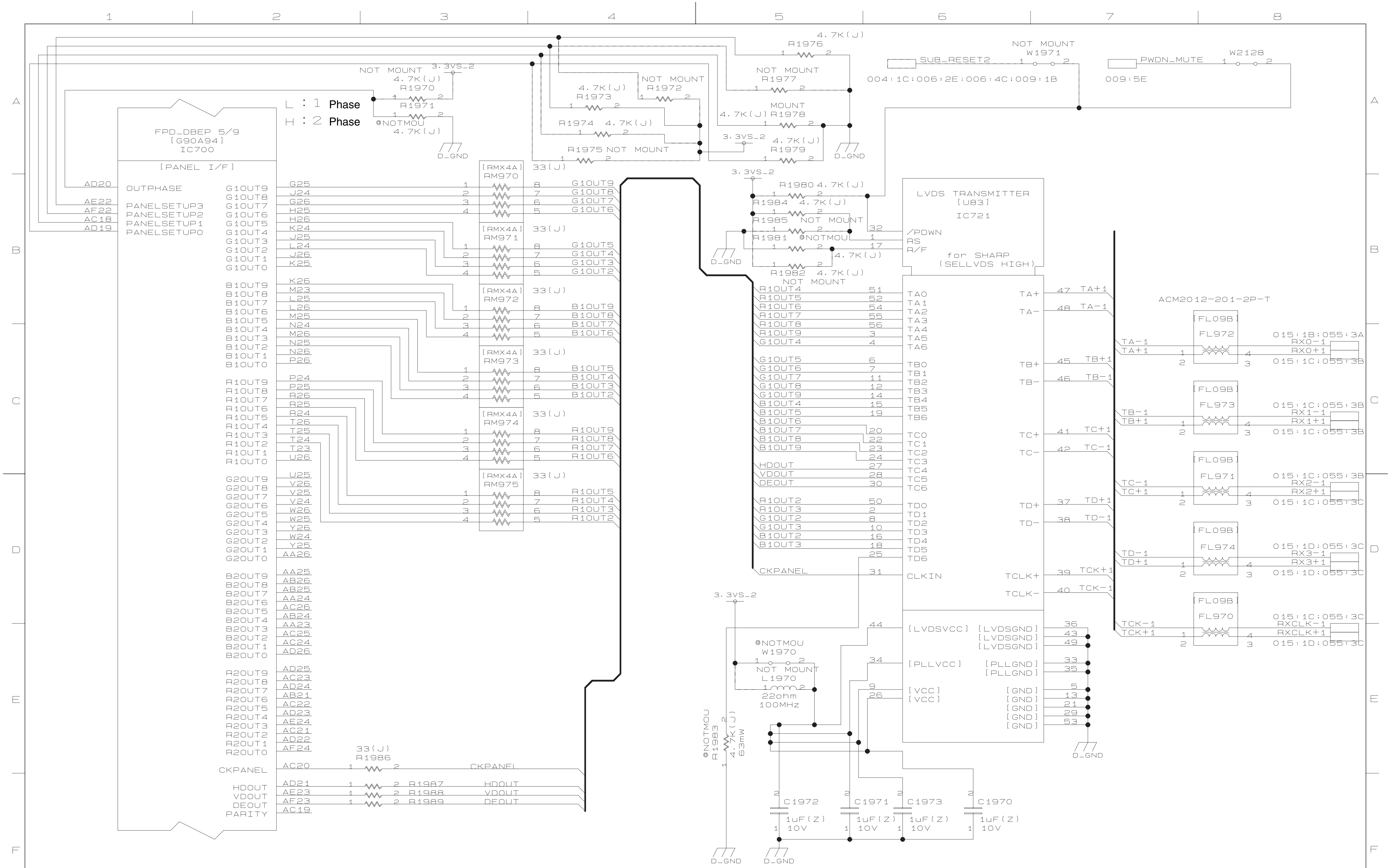
42WP46P
SCALER
SUB MICON (2/3)

SH. NO.
010



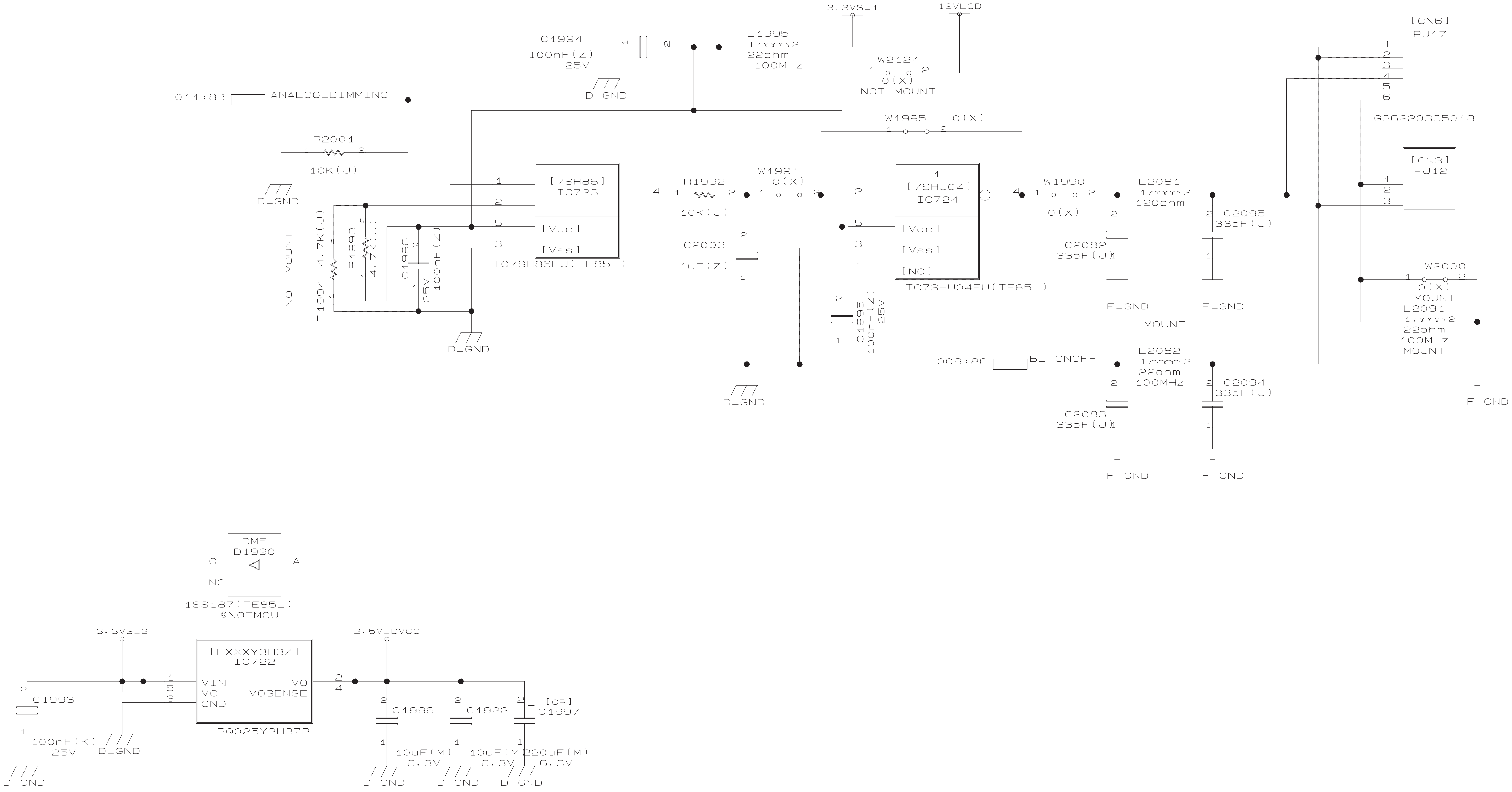
42WP46P
SCALER
SUB MICON (3/3)

SH. NO.
011



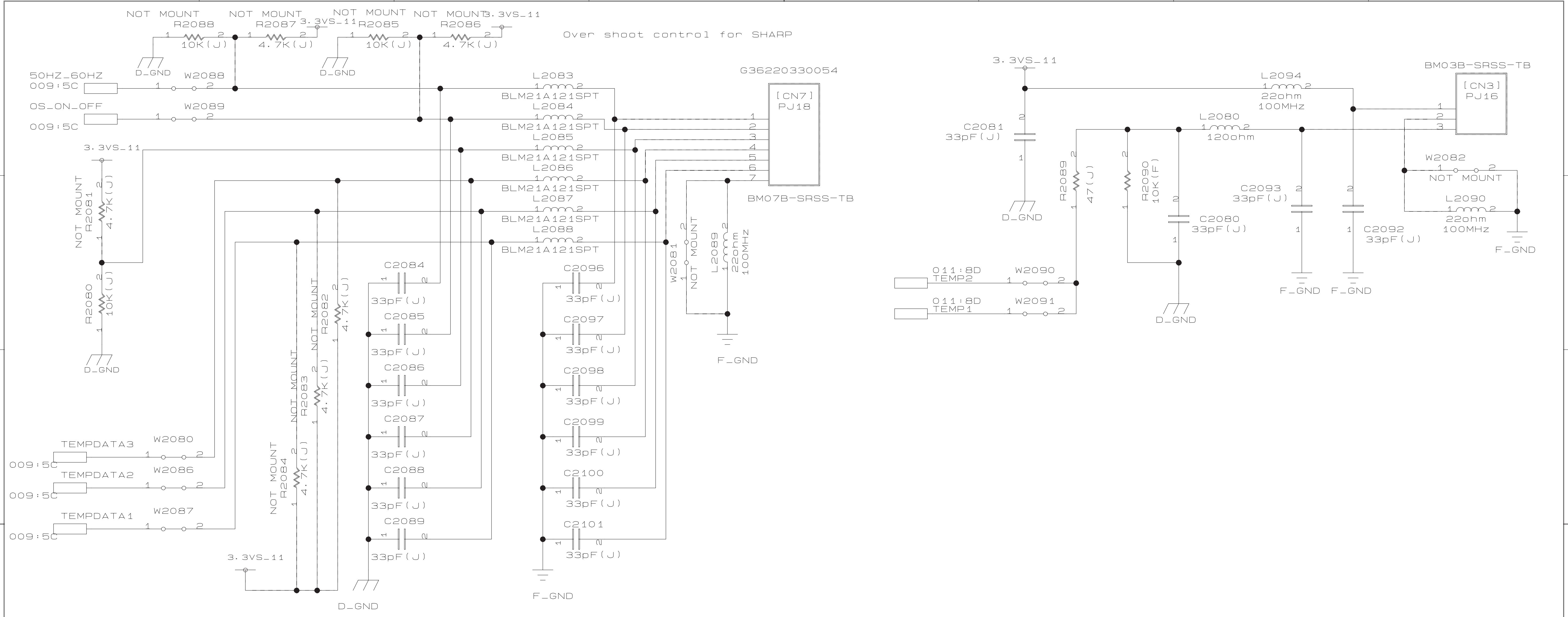
42WP46P
SCALER
LVDS OUT

SH. NO.
012



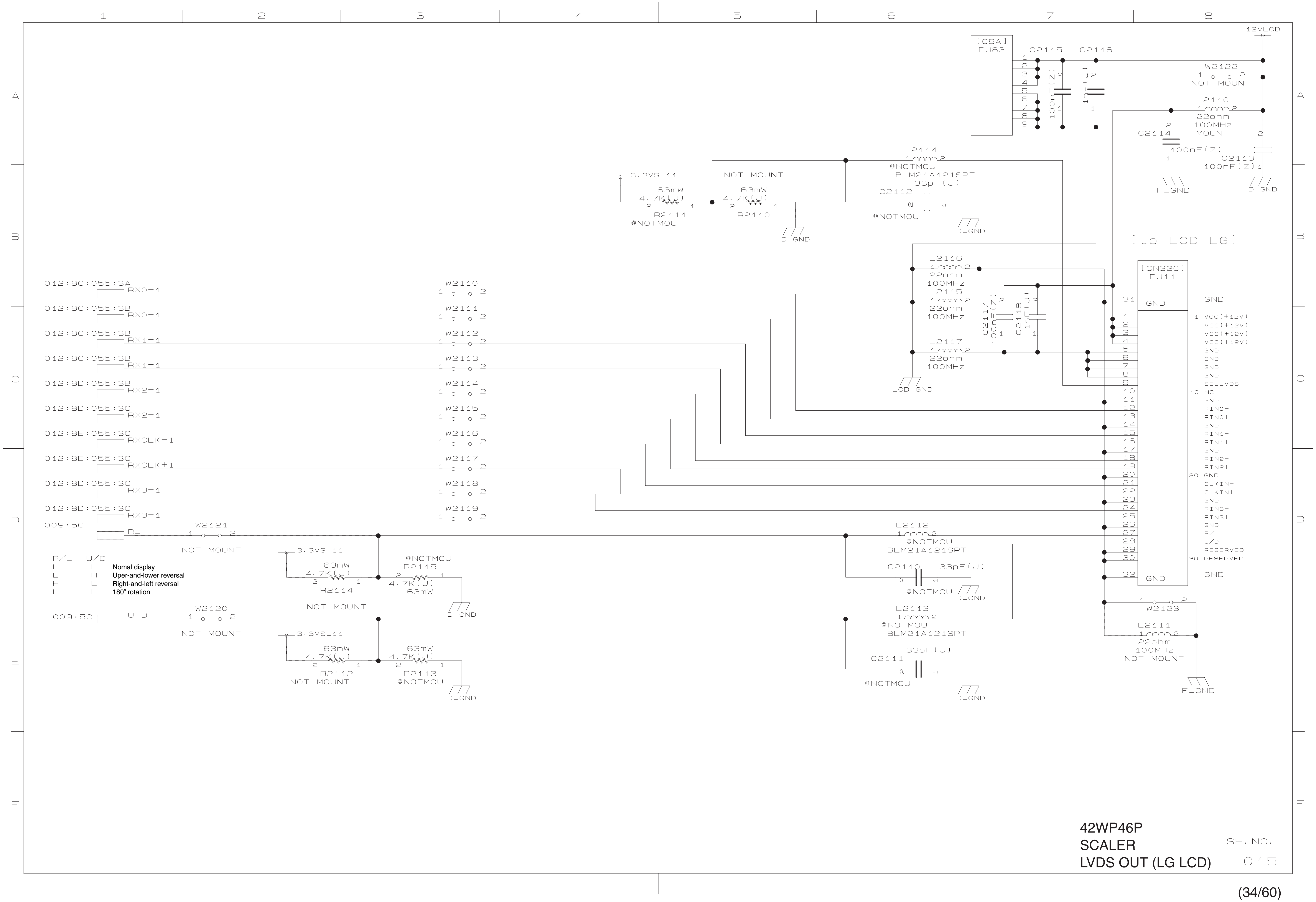
42WP46P
SCALER
POWER CONNECTOR AND DIMMING

SH. NO.
013



42WP46P
SCALER
LVDS POWER AND OTHERS

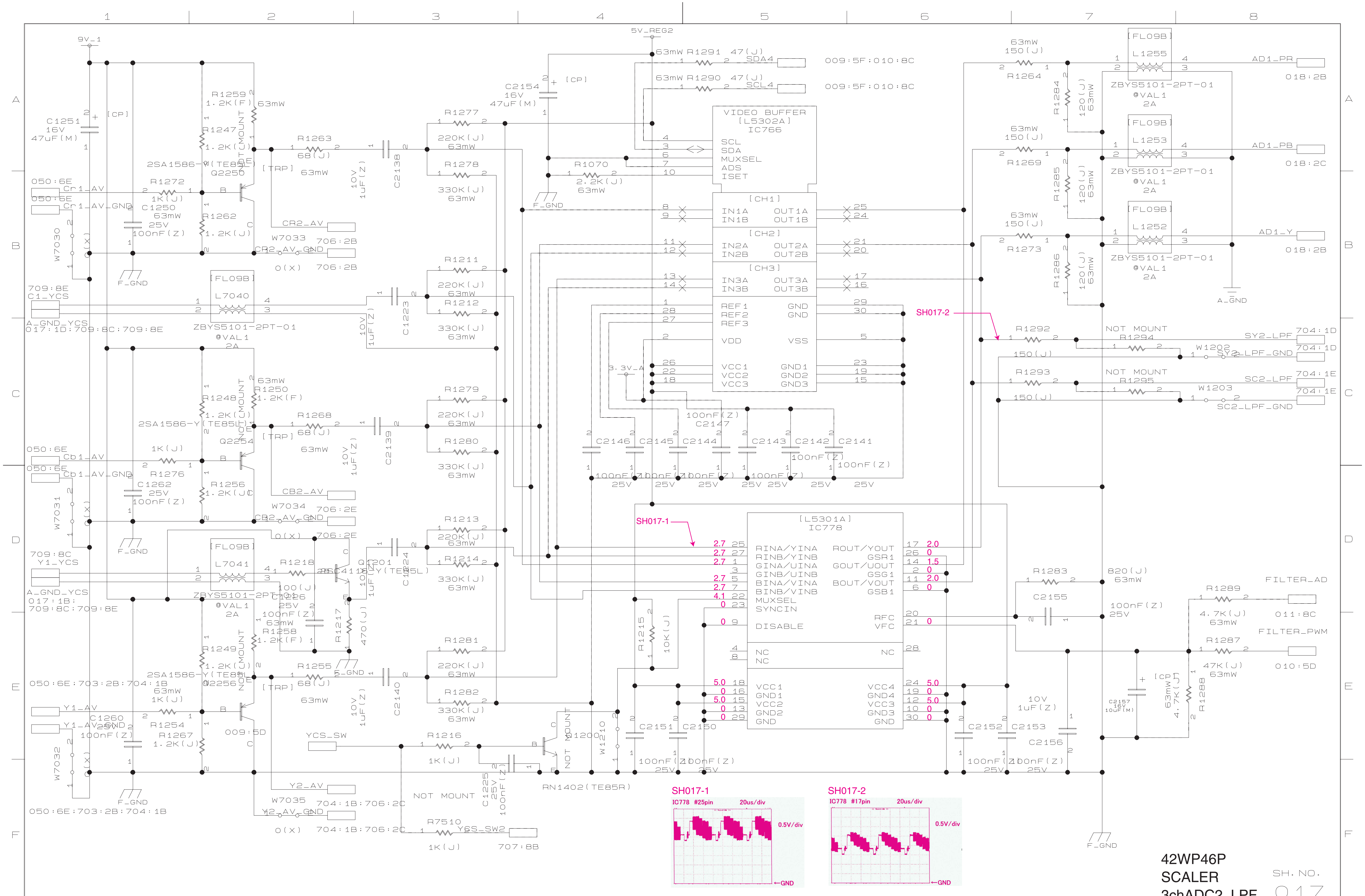
SH. NO.
014



R/L	U/D	
L	L	Nomal display
L	H	Uper-and-lower reversal
H	L	Right-and-left reversal
L	L	180° rotation

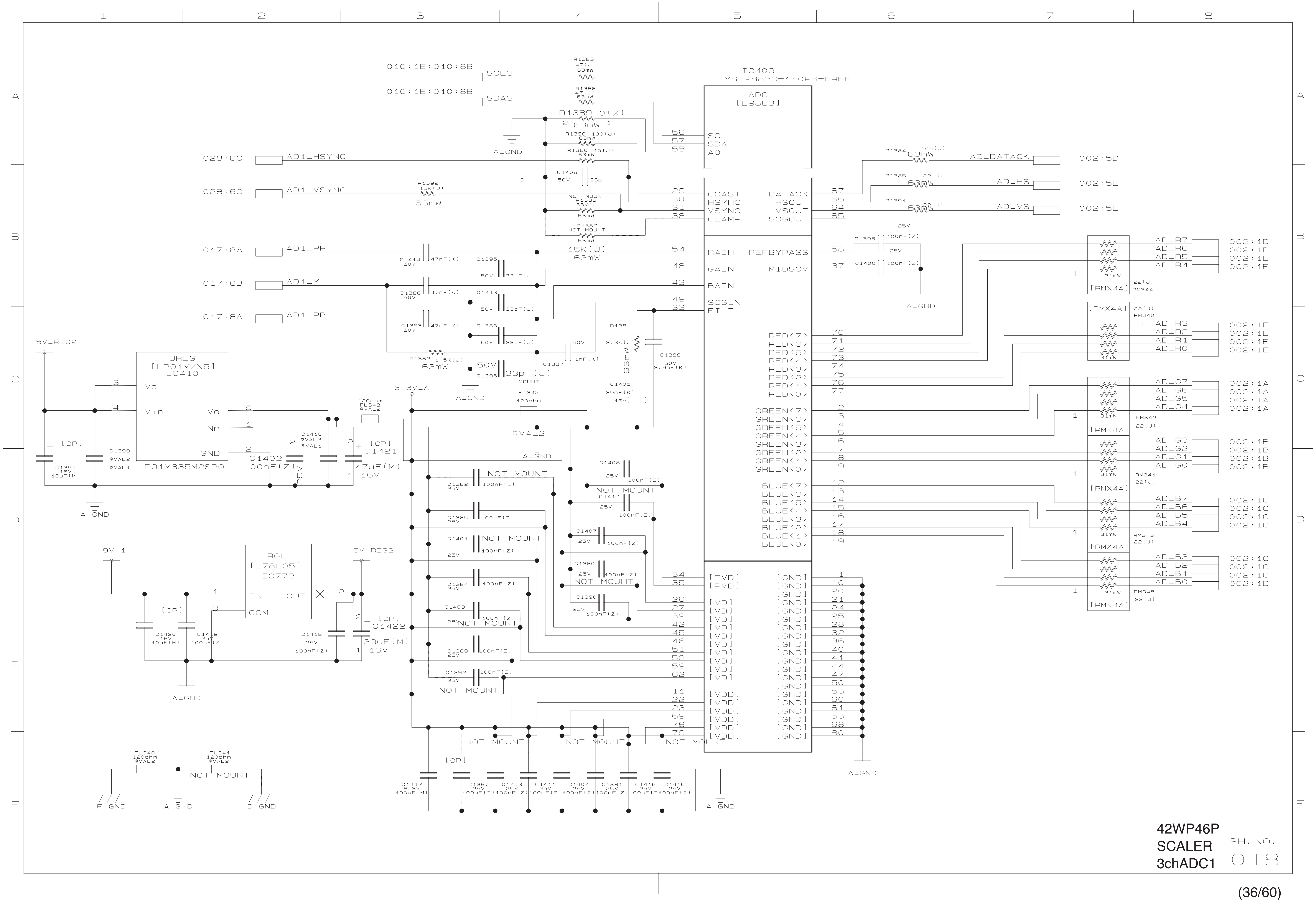
42WP46P
SCALER
LVDS OUT (LG LCD)

SH. NO.
015



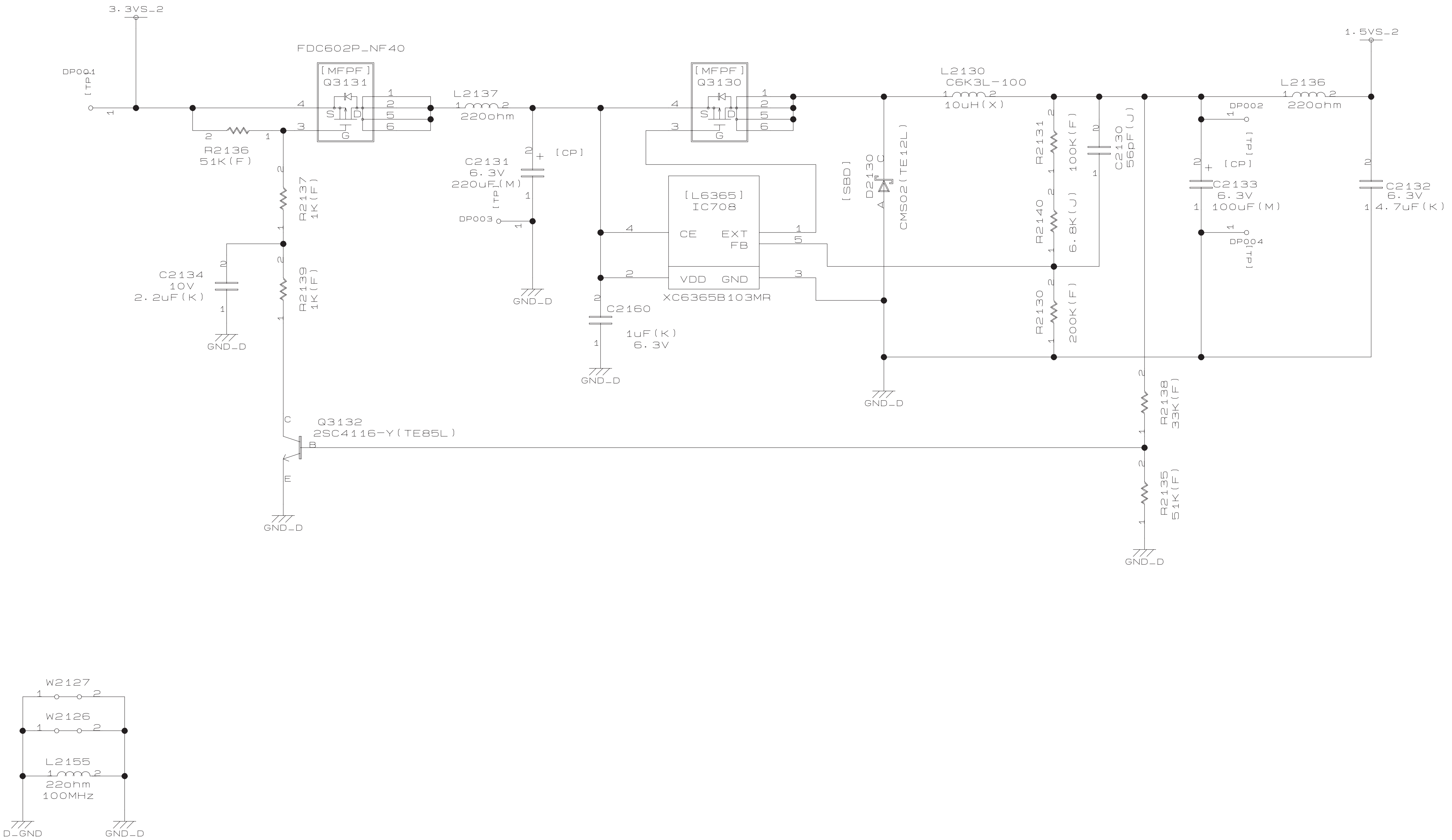
42WP46P
SCALER
3chADC2_LPF

SH. NO. 017



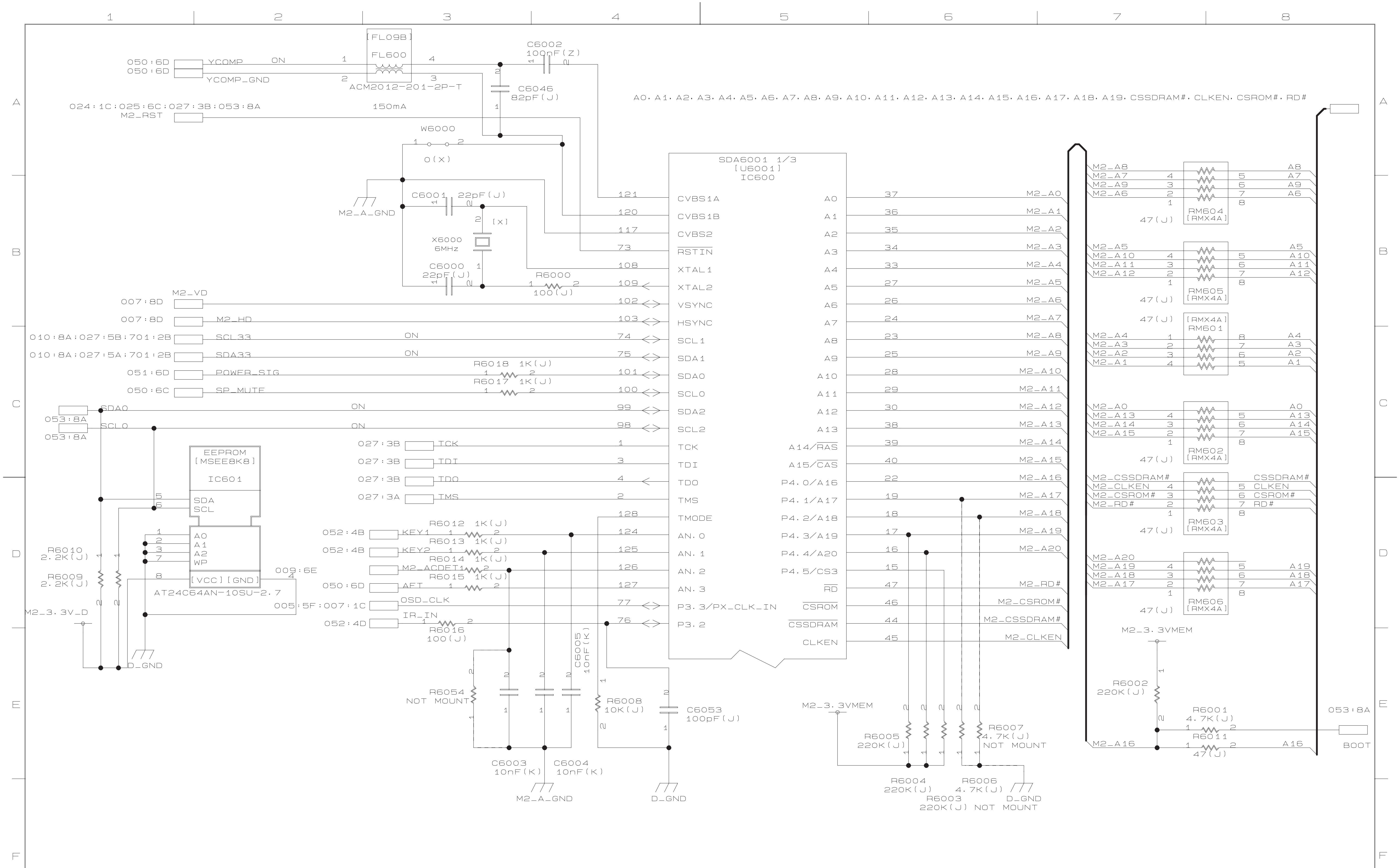
42WP46P
SCALER
3chADC1

SH. NO.
018



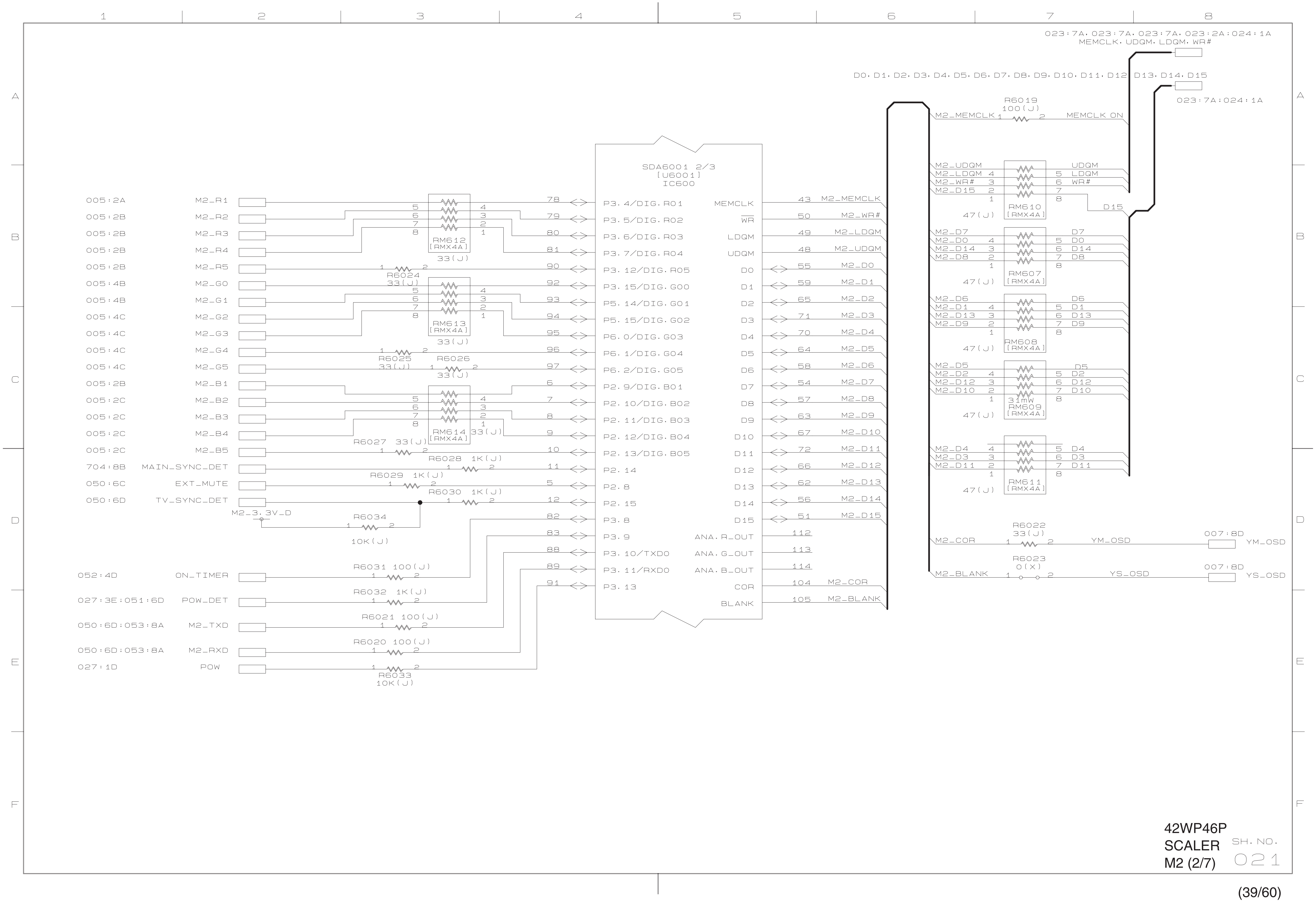
42WP46P
SCALER
DC/DC CONVERTER

SH. NO.
019



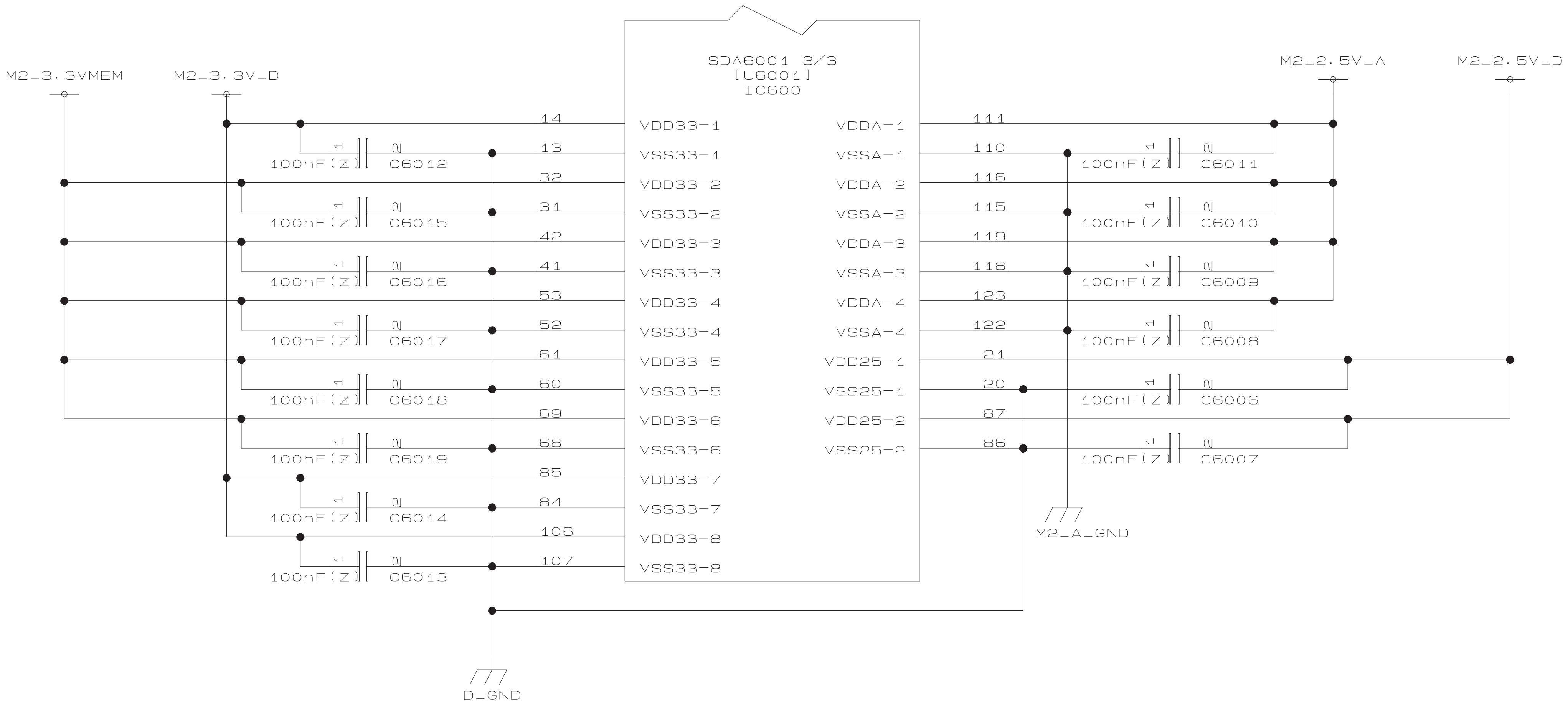
42WP46P
SCALER
M2 (1/7)

SH. NO.
020



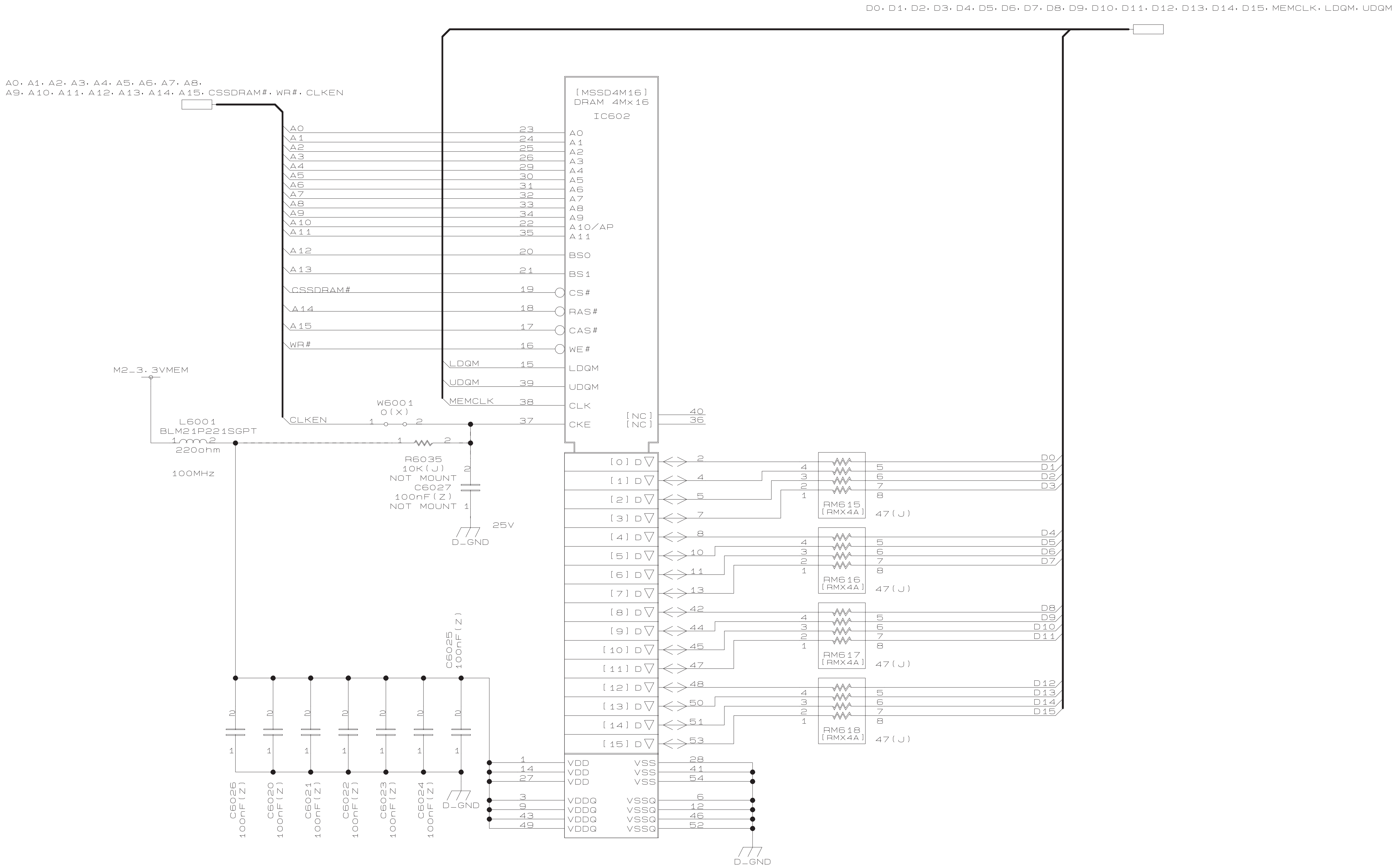
42WP46P
SCALER
M2 (2/7)

SH. NO.
021



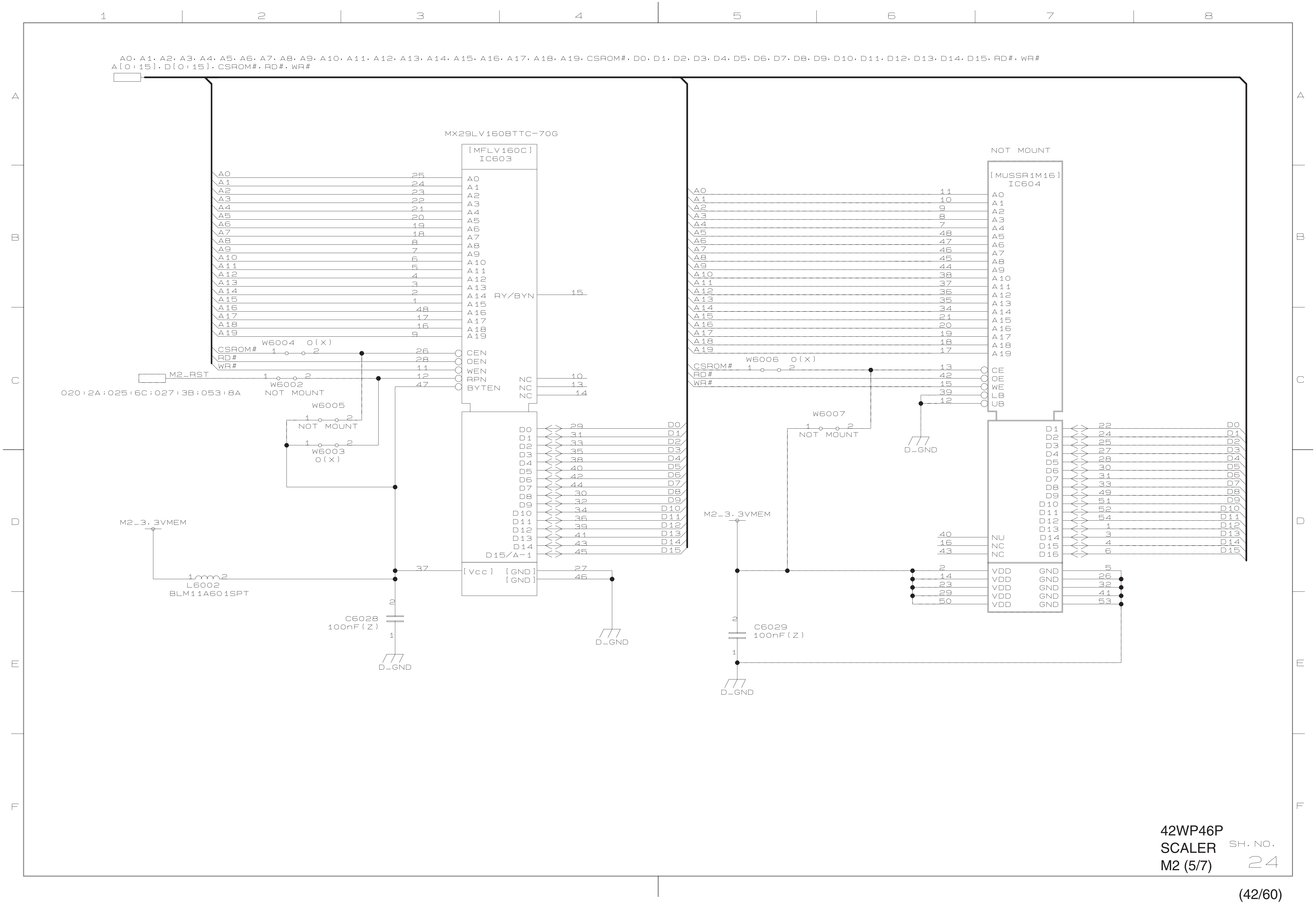
42WP46P
SCALER
M2 (3/7)

SH. NO.
022



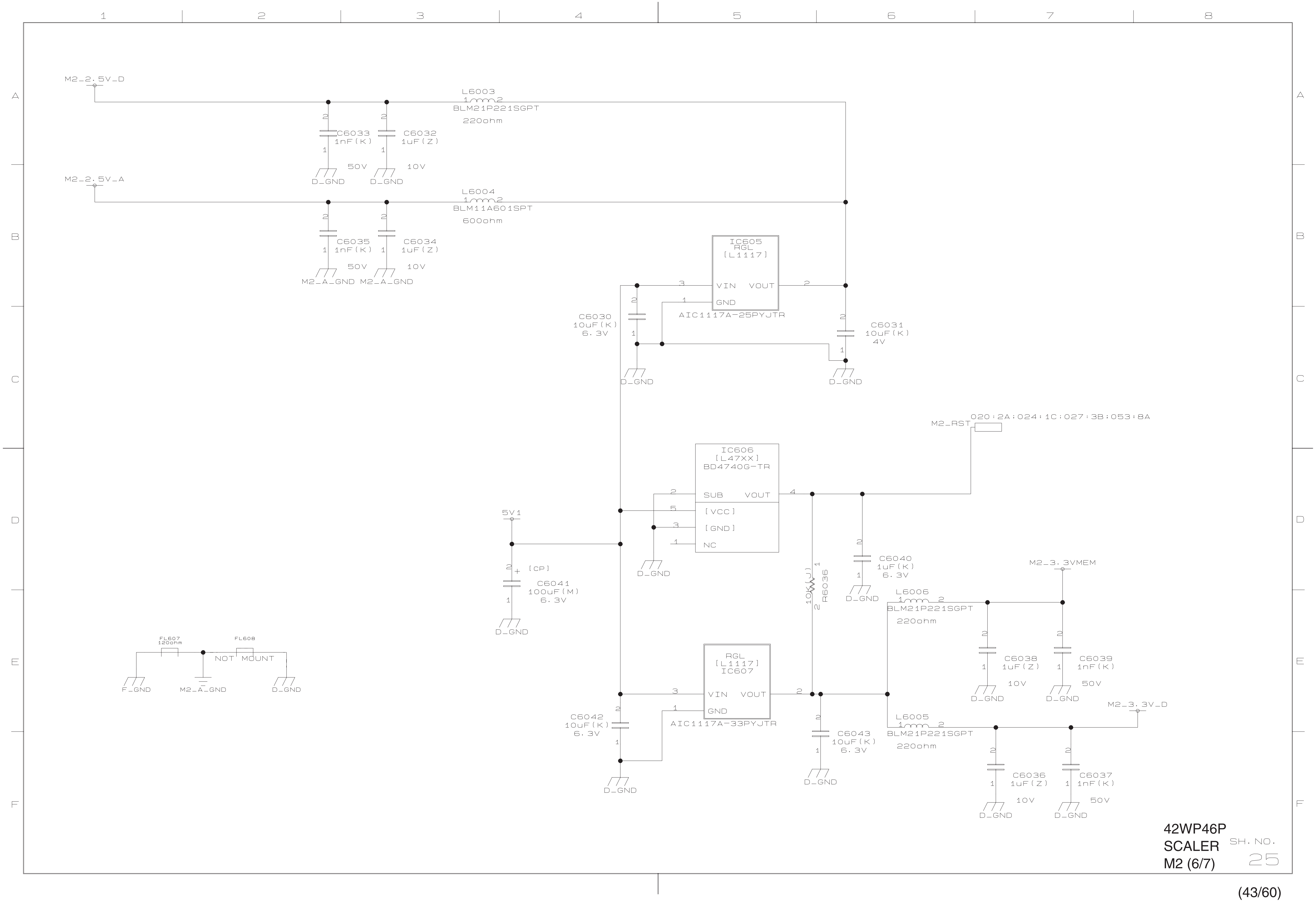
42WP46P
SCALER
M2 (4/7)

SH. NO.
023



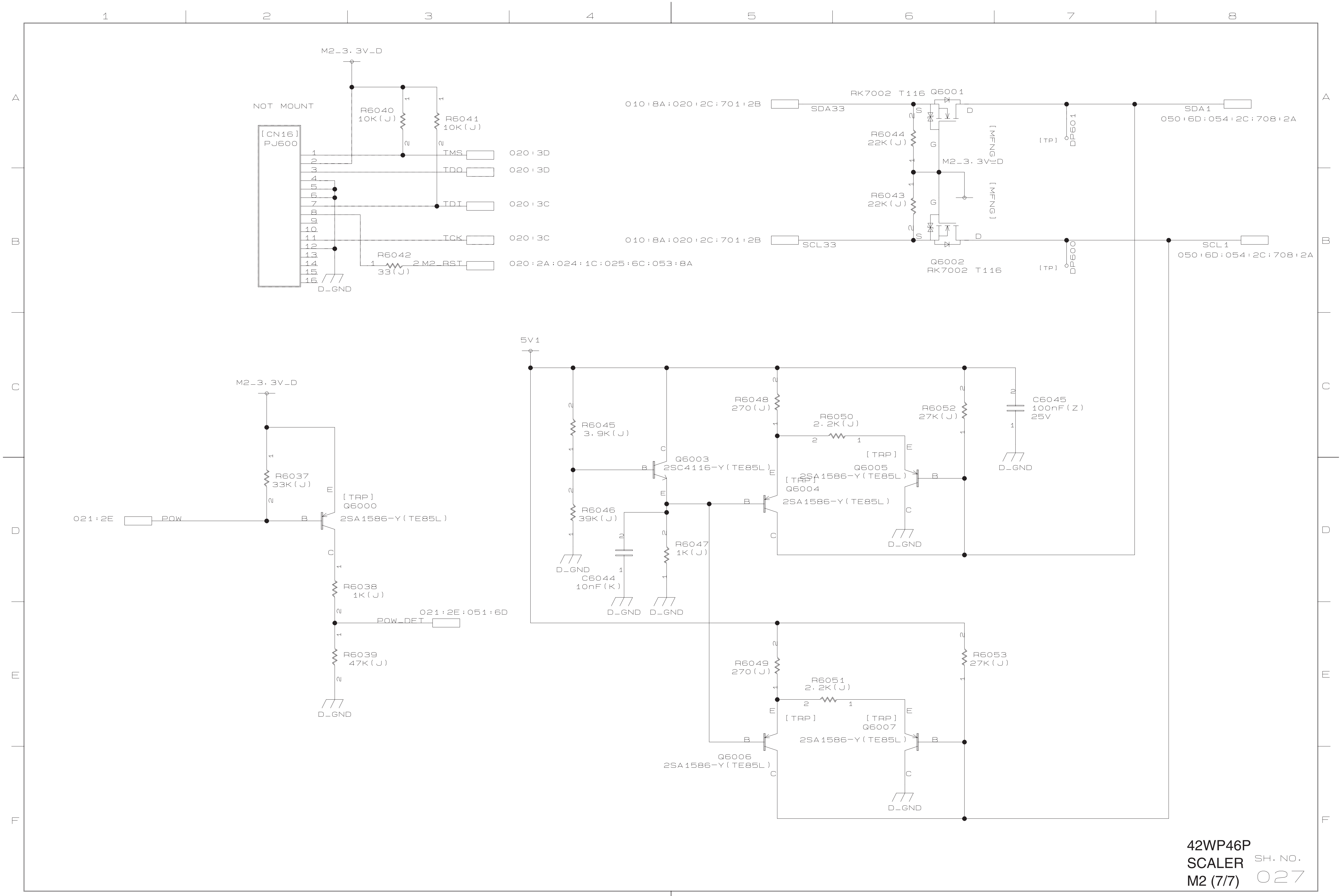
42WP46P
SCALER
M2 (5/7)

SH. NO.
24



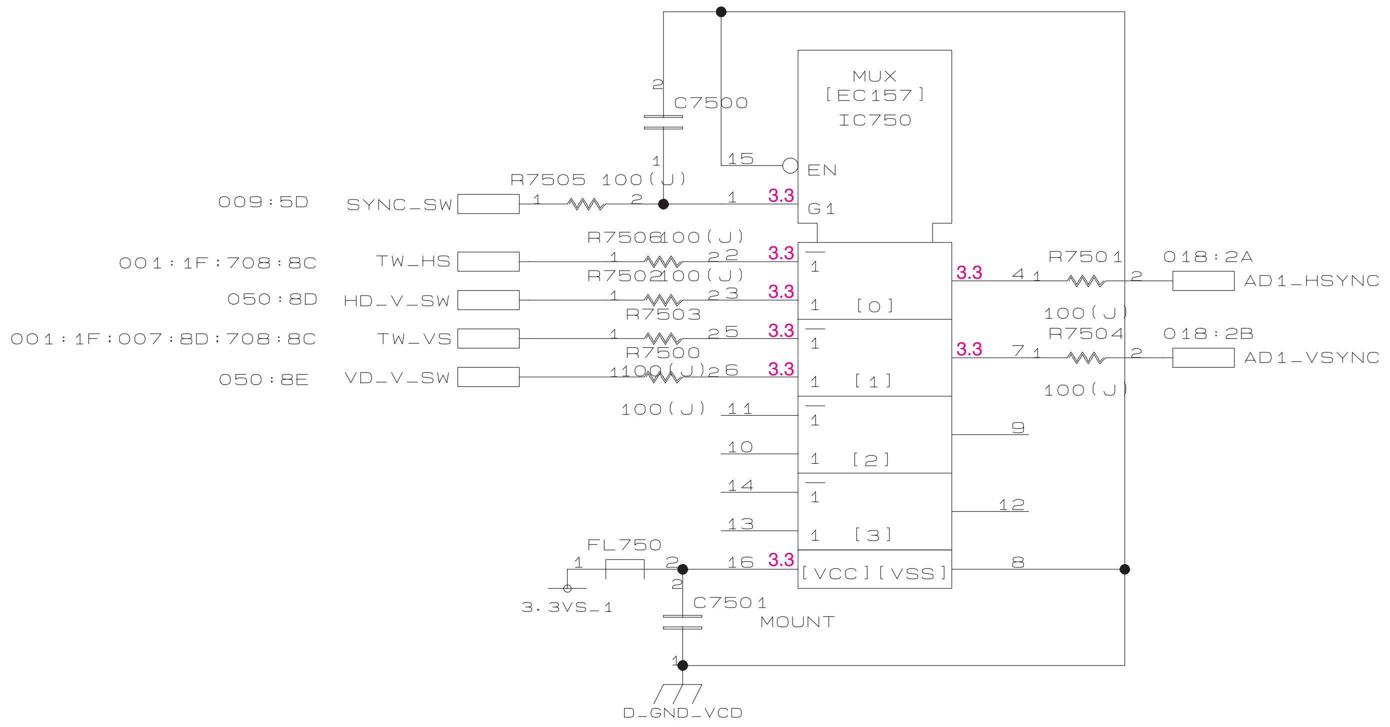
42WP46P
SCALER
M2 (6/7)

SH. NO.
25



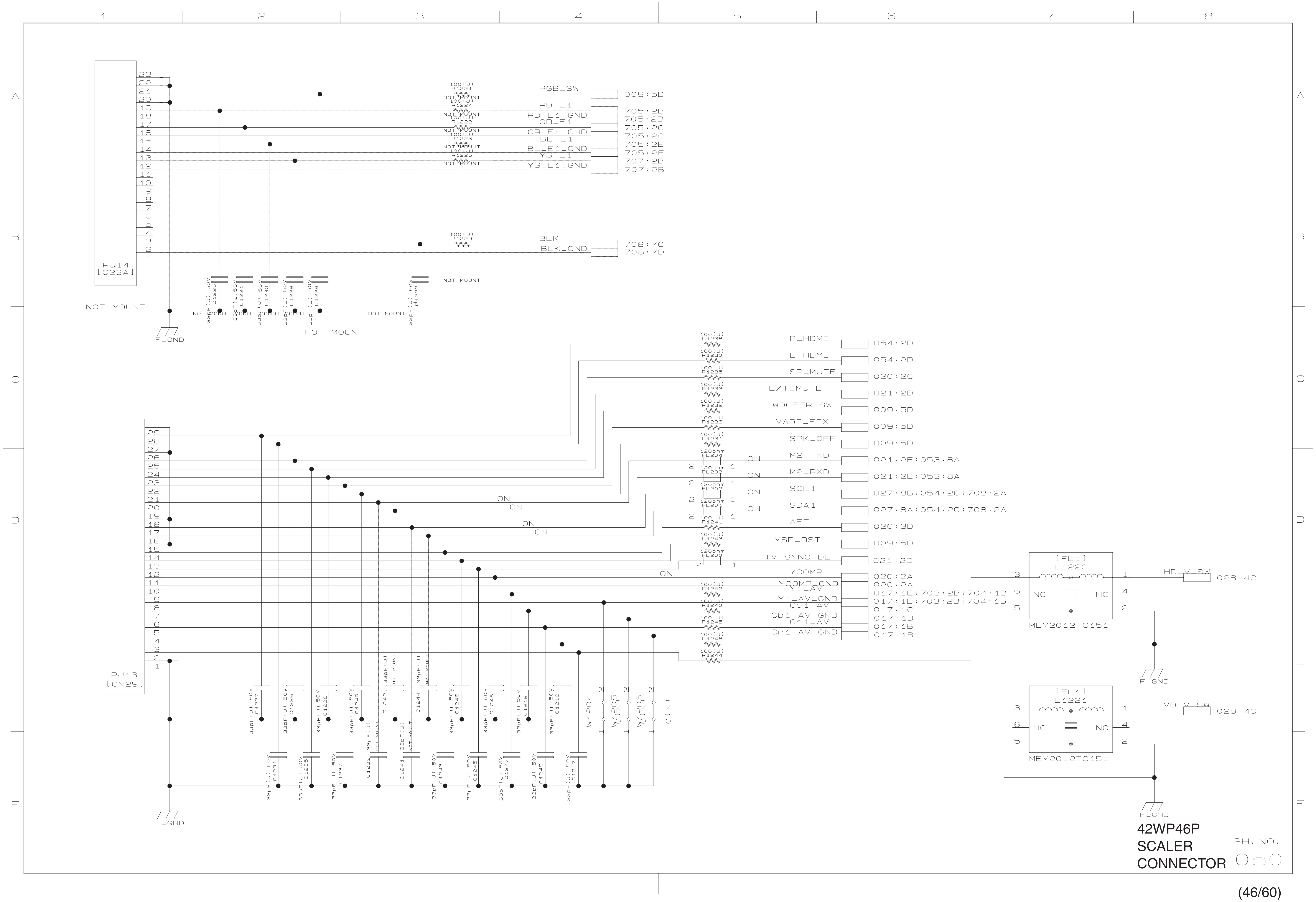
42WP46P
SCALER
M2 (7/7)

SH. NO.
027



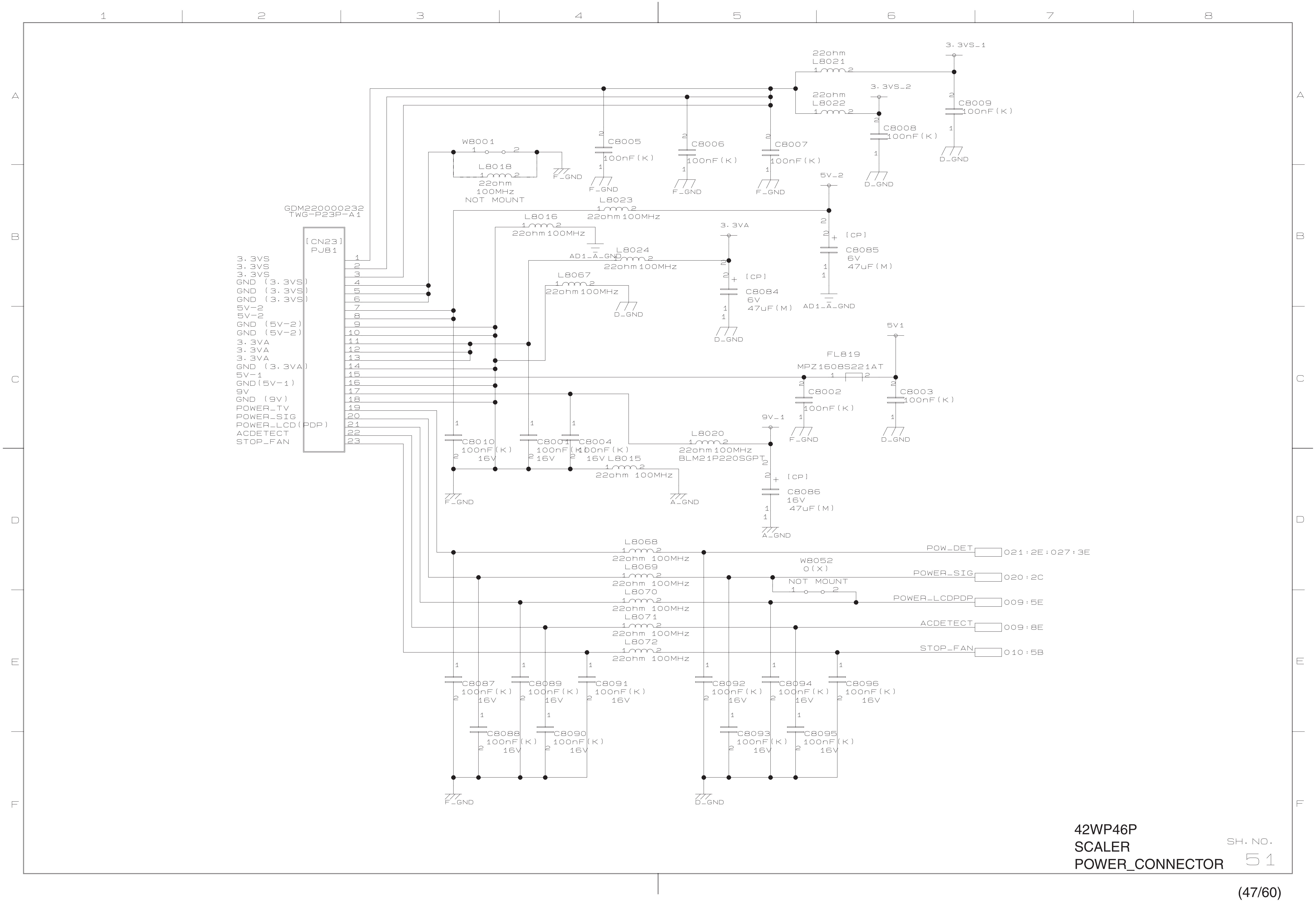
42WP46P
SCALER
SYNC_SW

SH. NO.
28



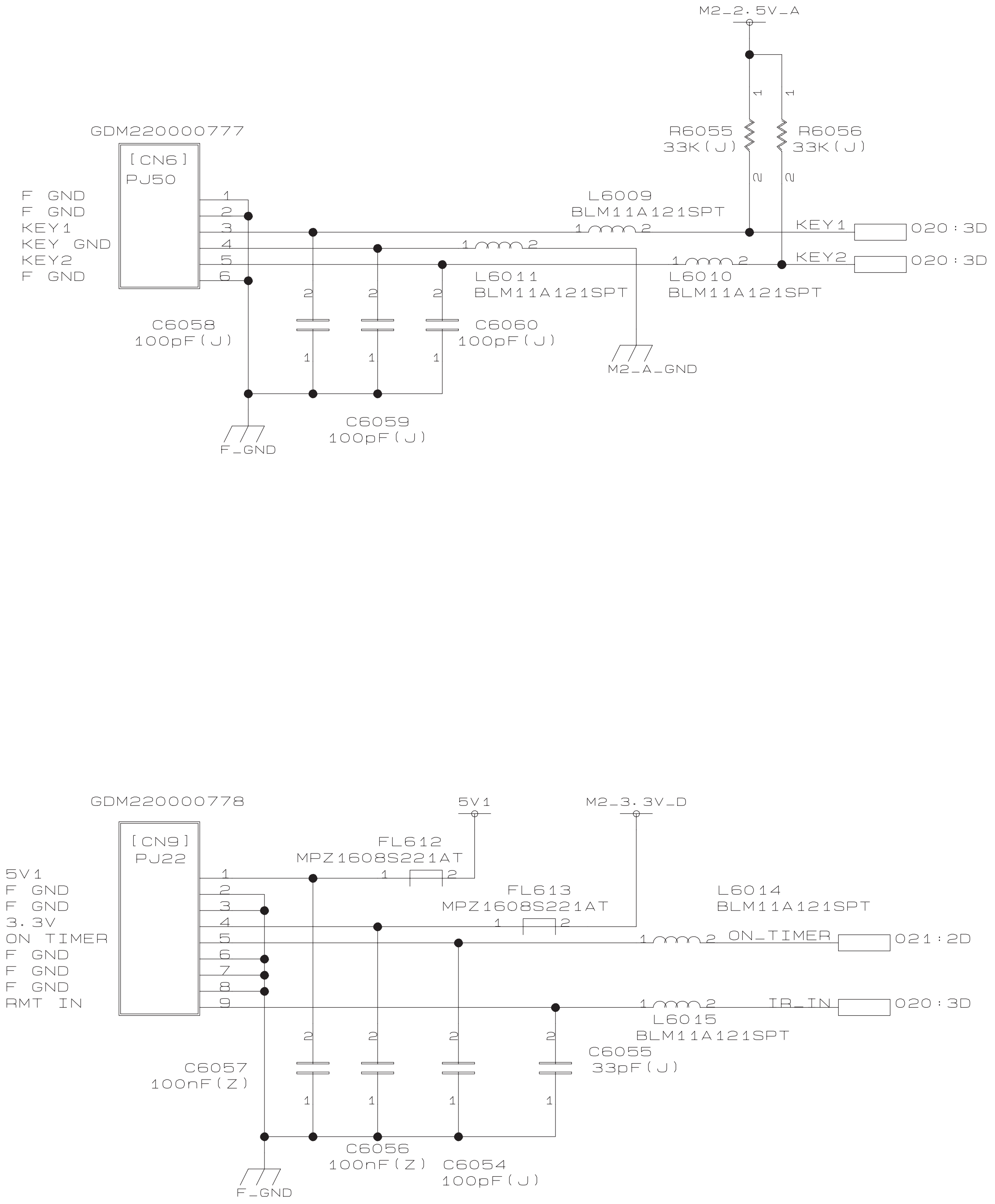
42WP46P
SCALER
CONNECTOR

SH. NO. 050



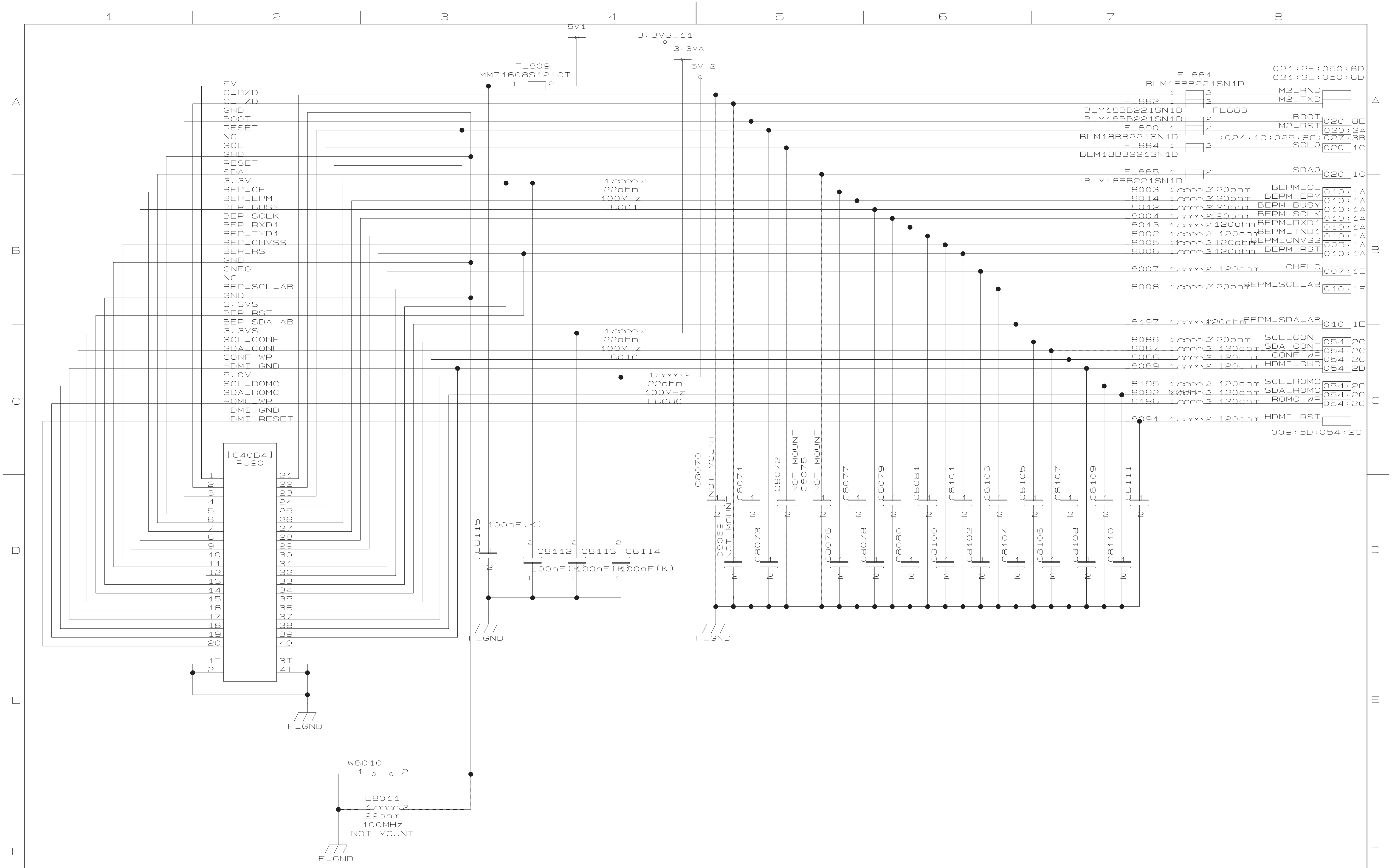
42WP46P
SCALER
POWER_CONNECTOR

SH. NO.
51



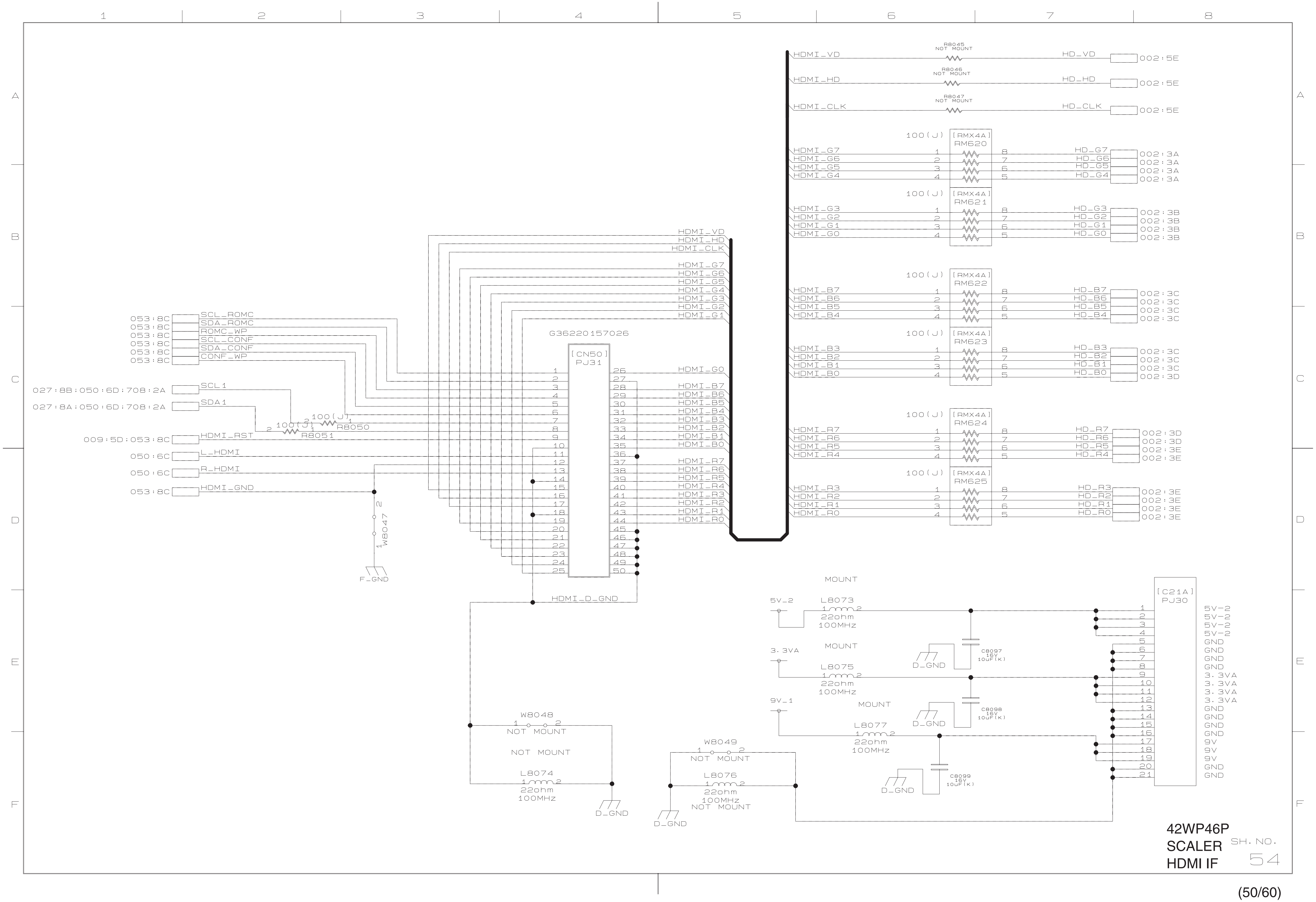
42WP46P
SCALER
TV MICON CONNECTOR (1)

SH. NO.
52

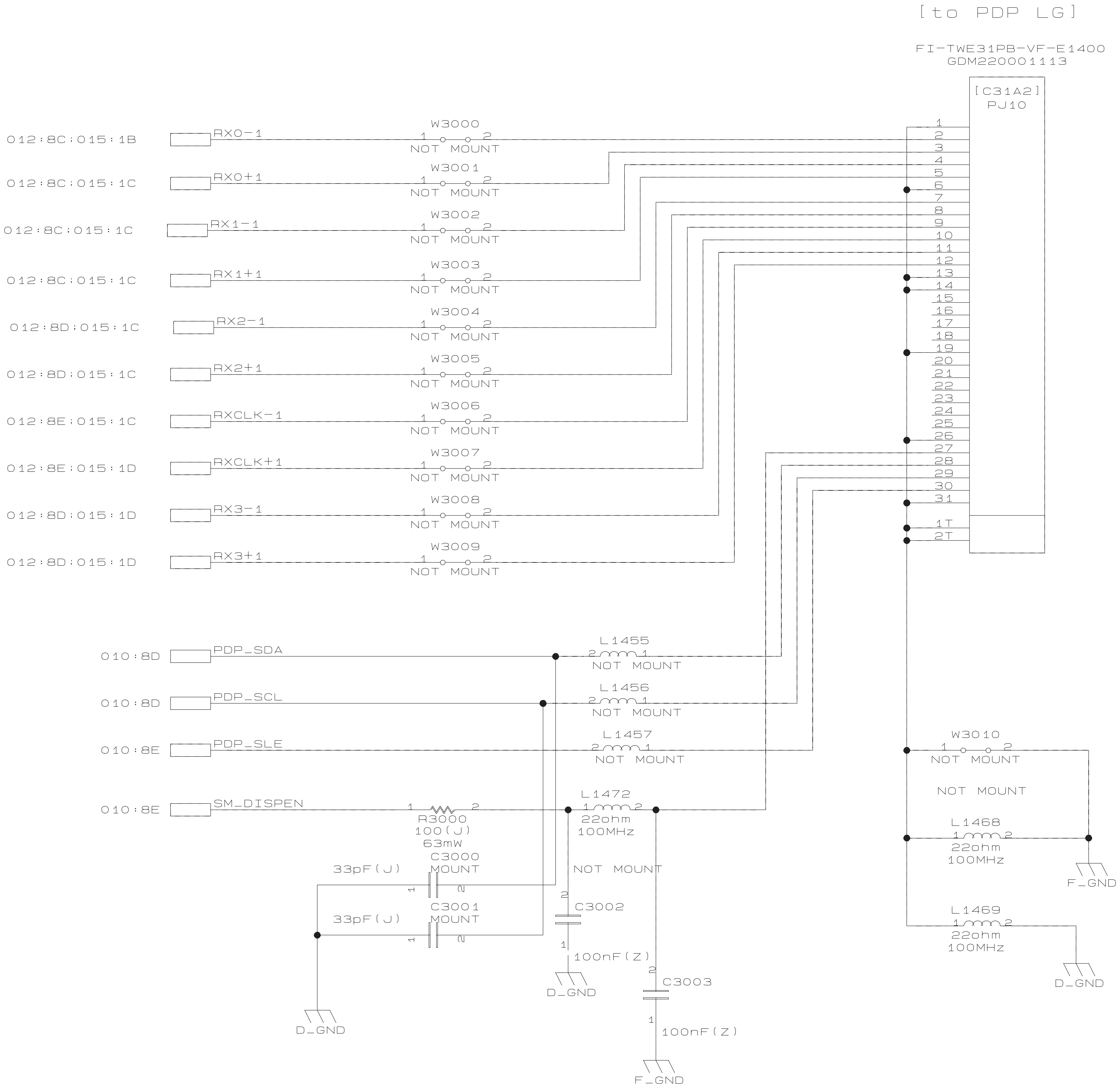


42WP46P
SCALER
SERVICE CONNECTOR (BEP)

SH. NO.
53

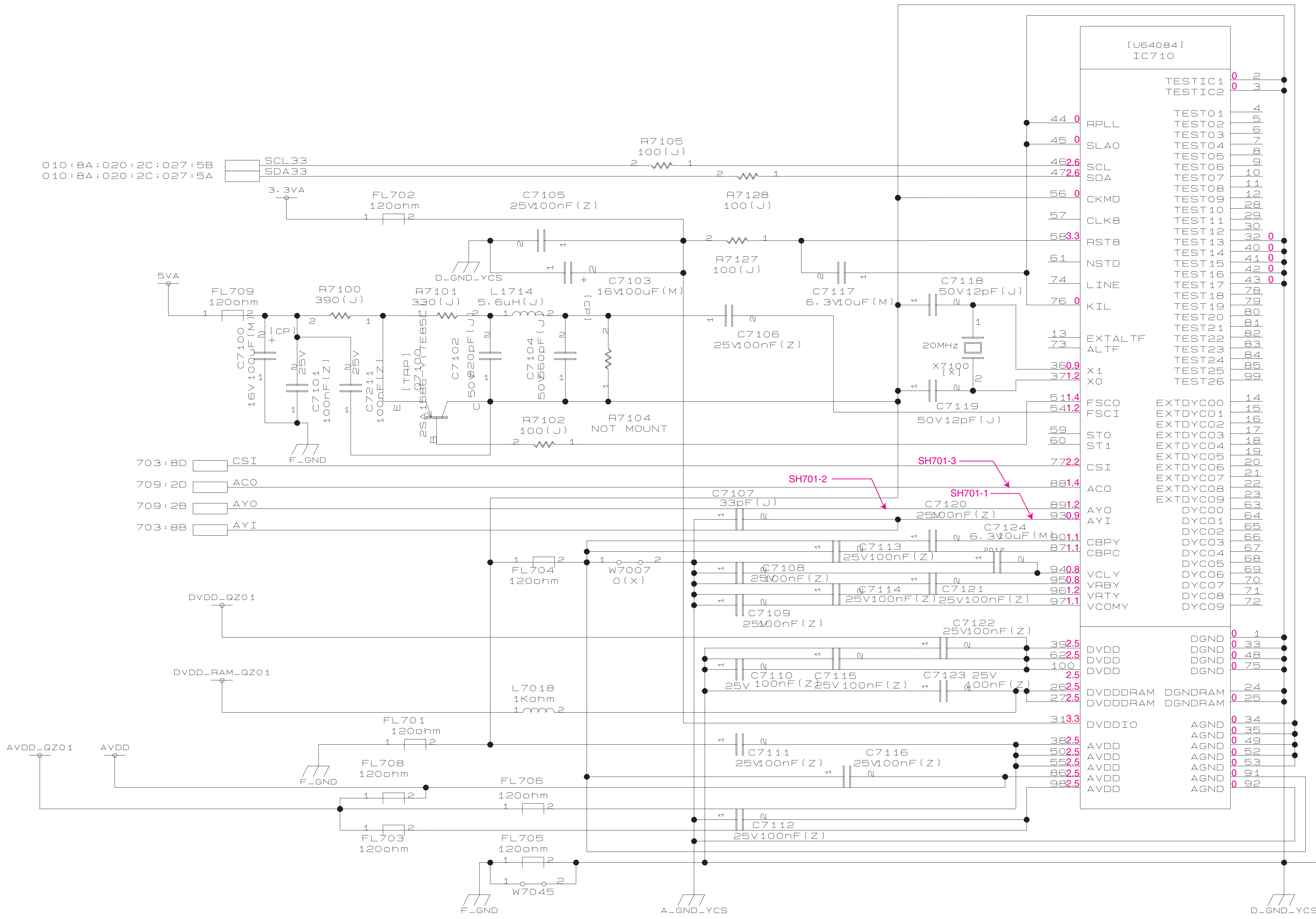


42WP46P
SCALER
HDMI IF
SH. NO.
54

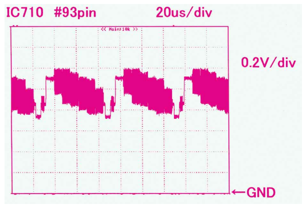


42WP46P
SCALER
CONNECTOR (LVDS OUT & POWER)

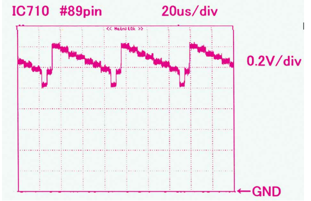
SH. NO.
55



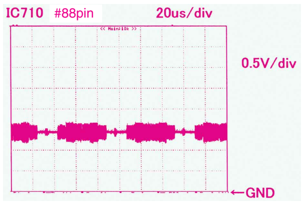
SH701-1



SH701-2

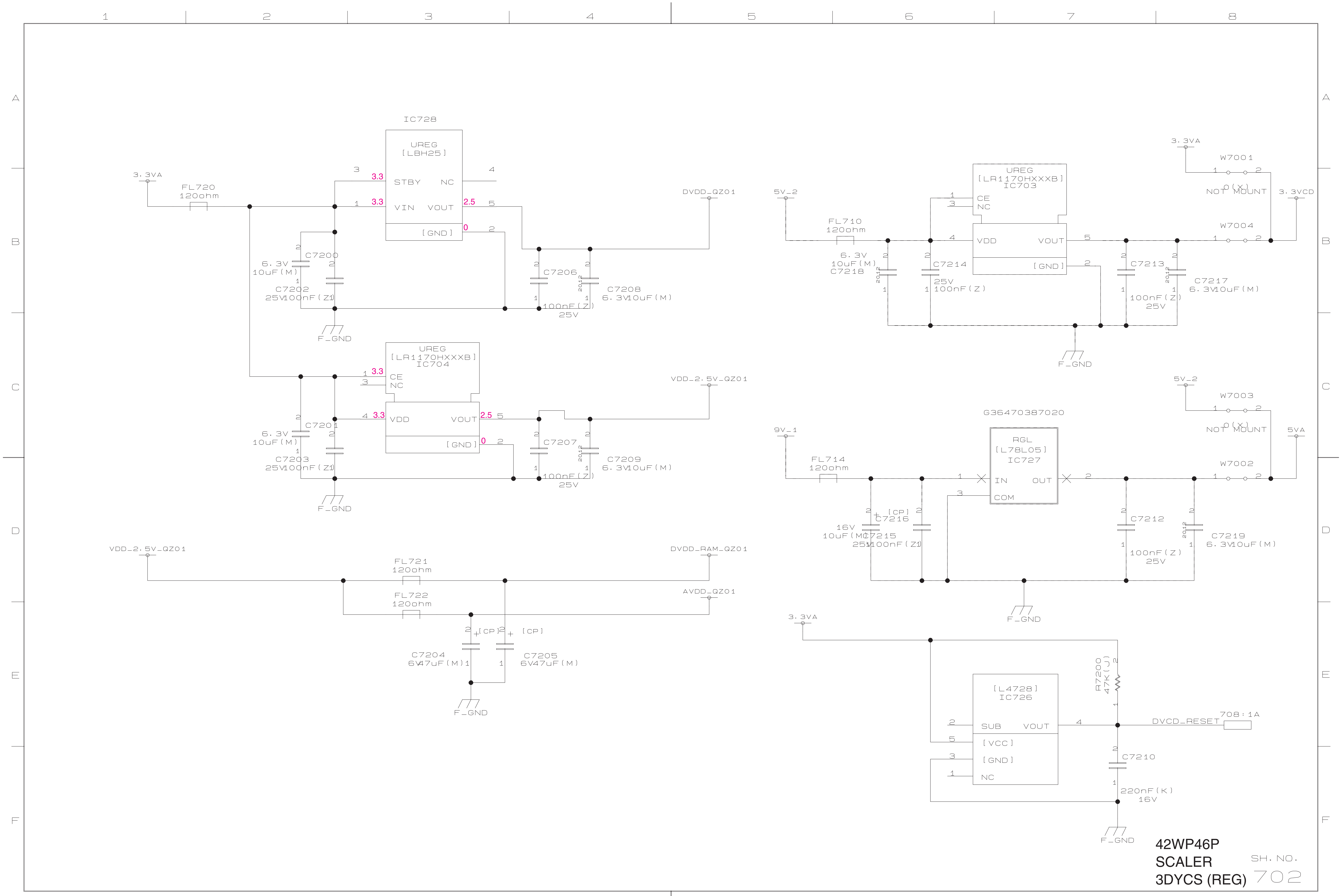


SH701-3



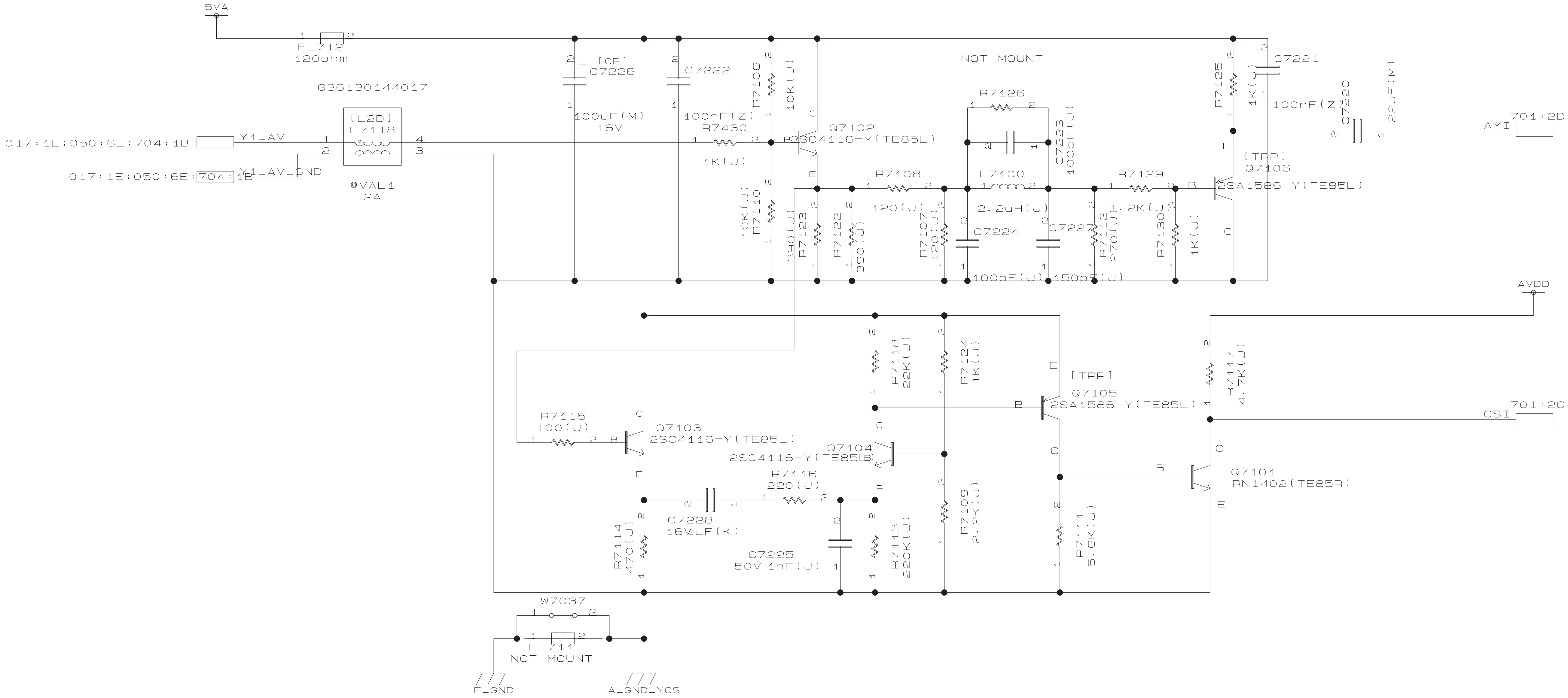
42WP46P
SCALER
3DYCS (1/9)

SH. NO.
701



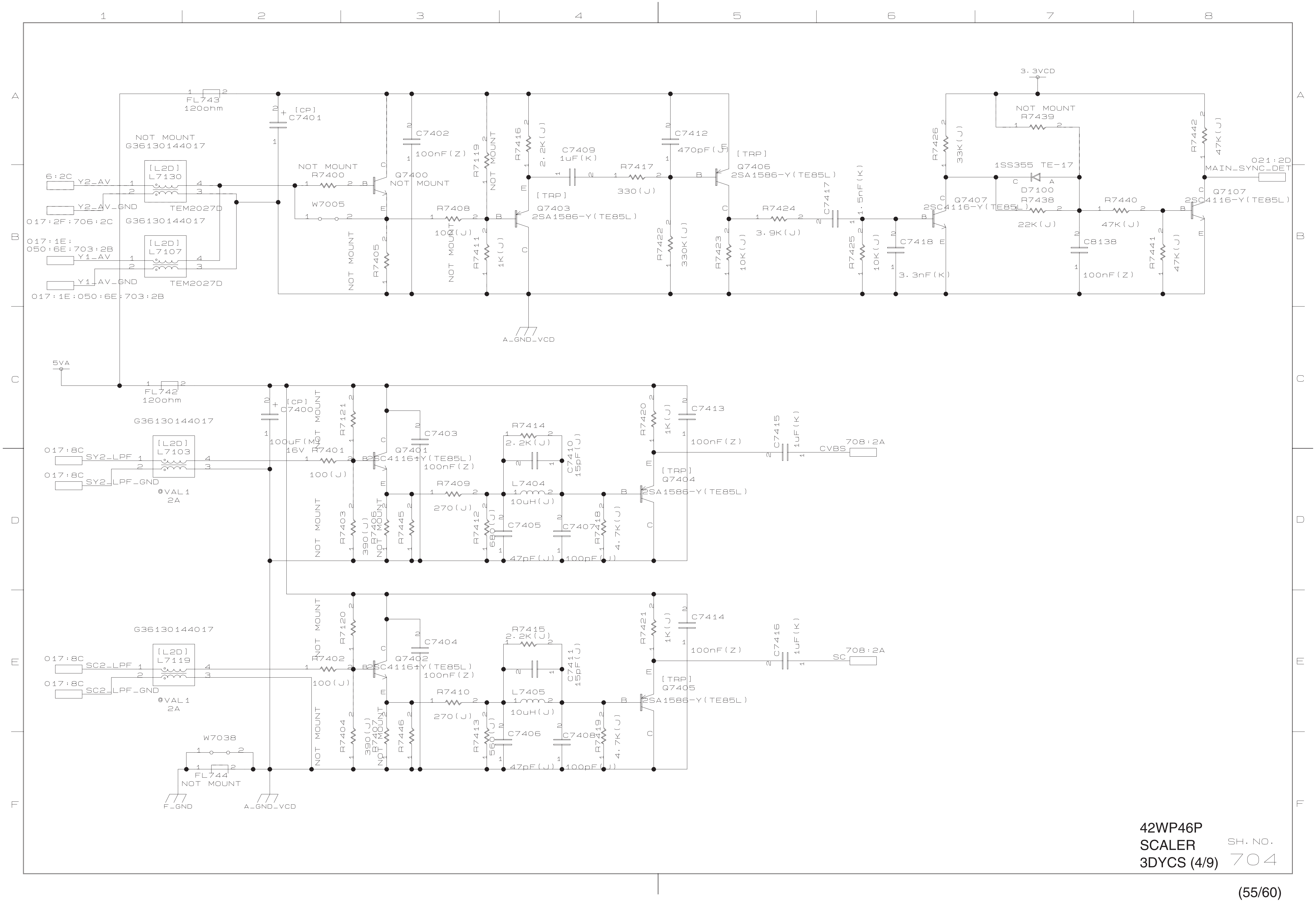
42WP46P
SCALER
3DYCS (REG)

SH. NO.
702



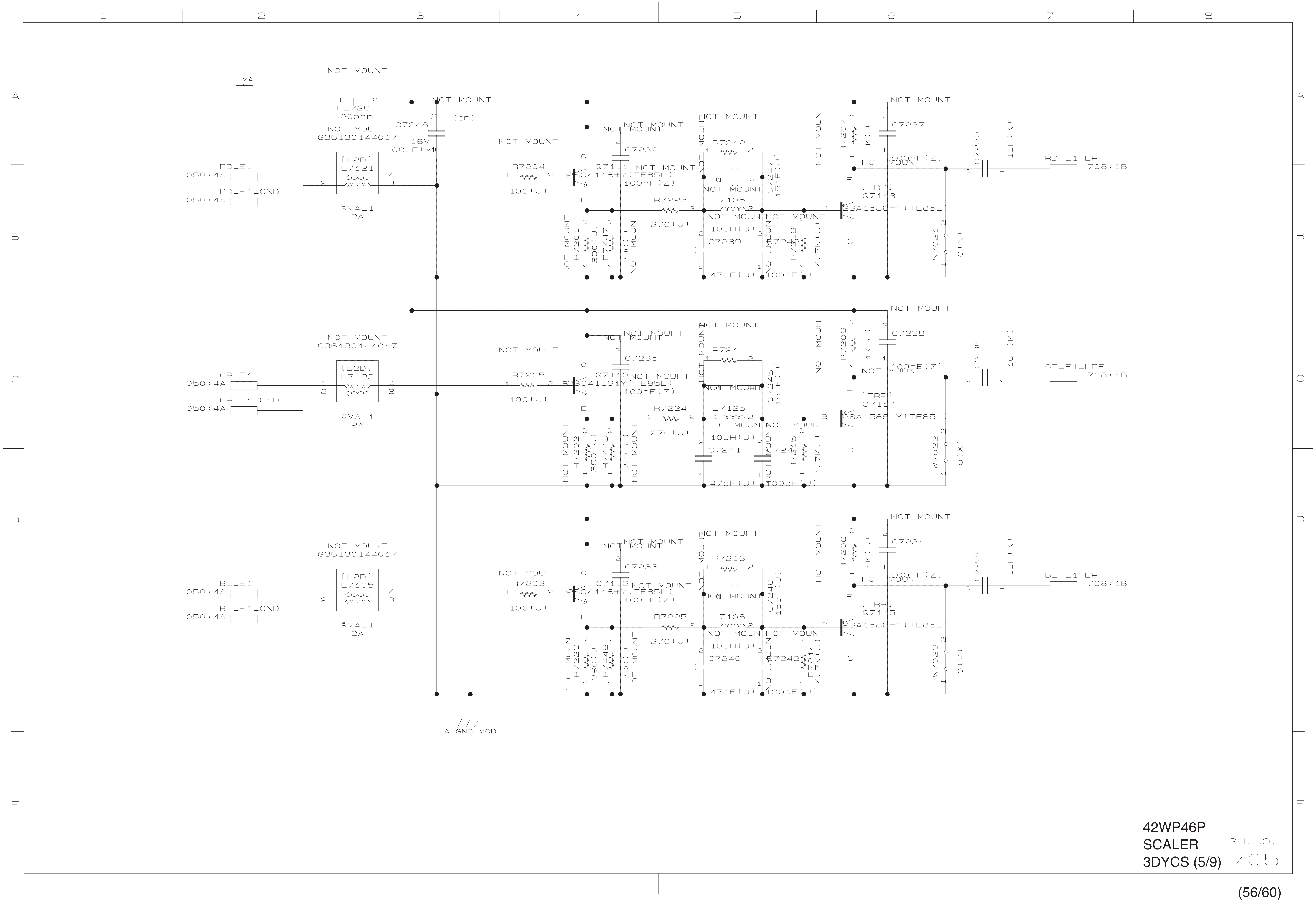
42WP46P
SCALER
3DYCS (3/9)

SH. NO.
703



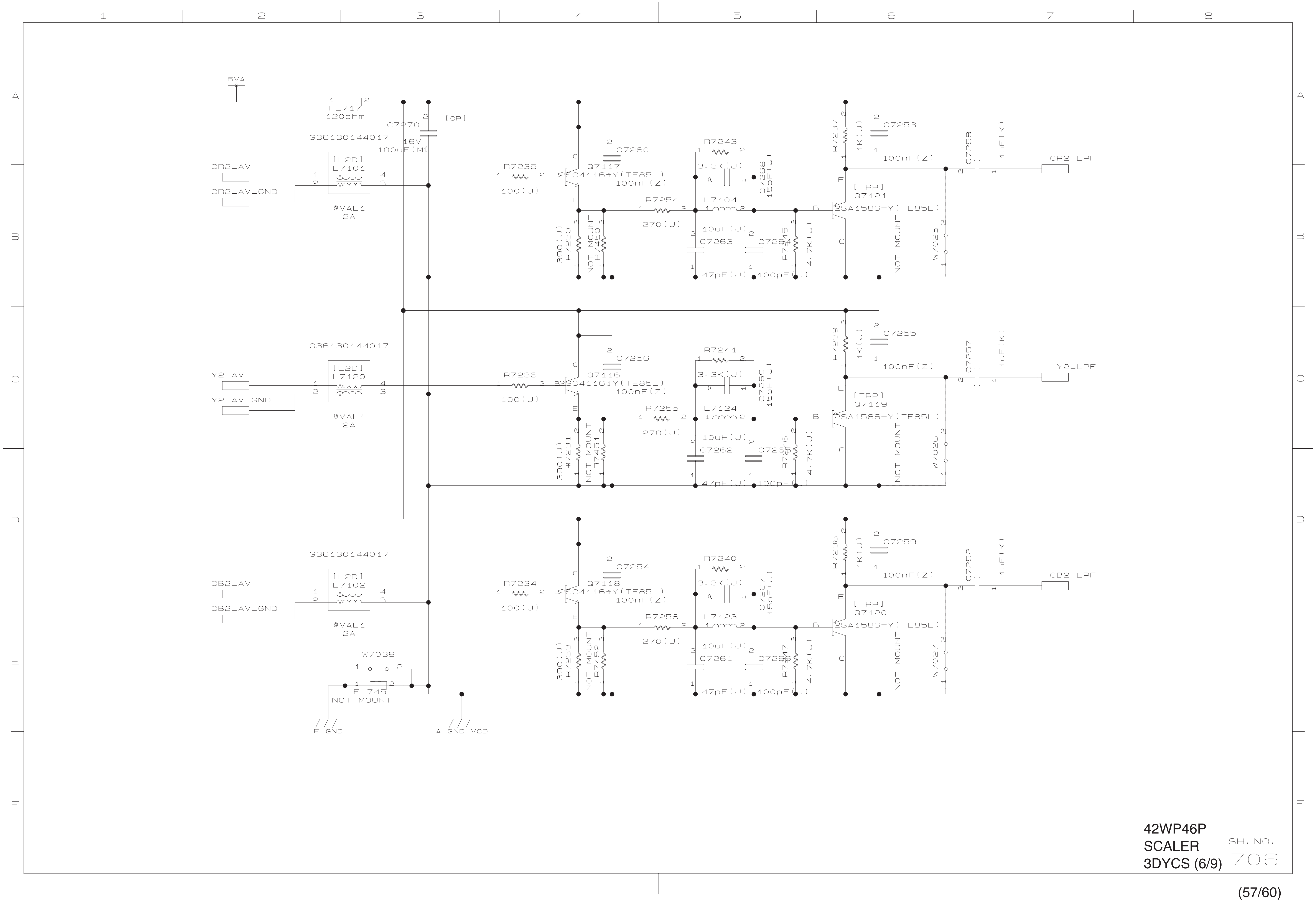
42WP46P
SCALER
3DYCS (4/9)

SH. NO.
704



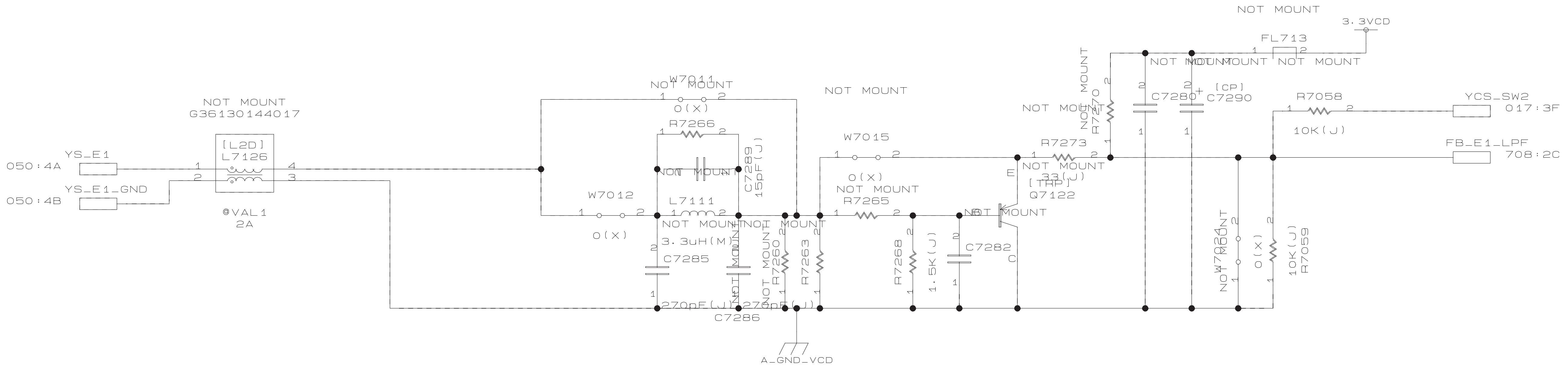
42WP46P
SCALER
3DYCS (5/9)

SH. NO.
705



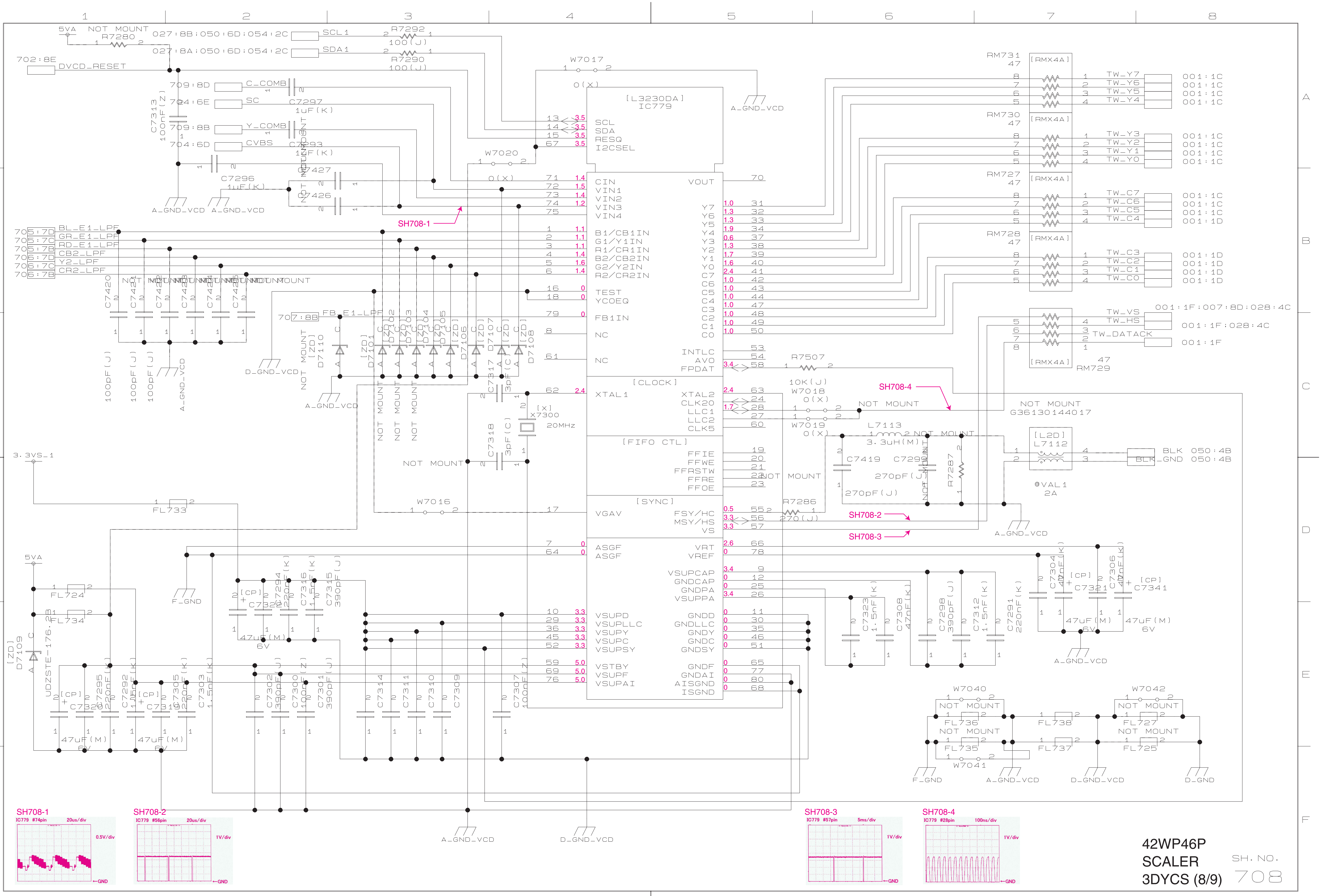
42WP46P
SCALER
3DYCS (6/9)

SH. NO.
706



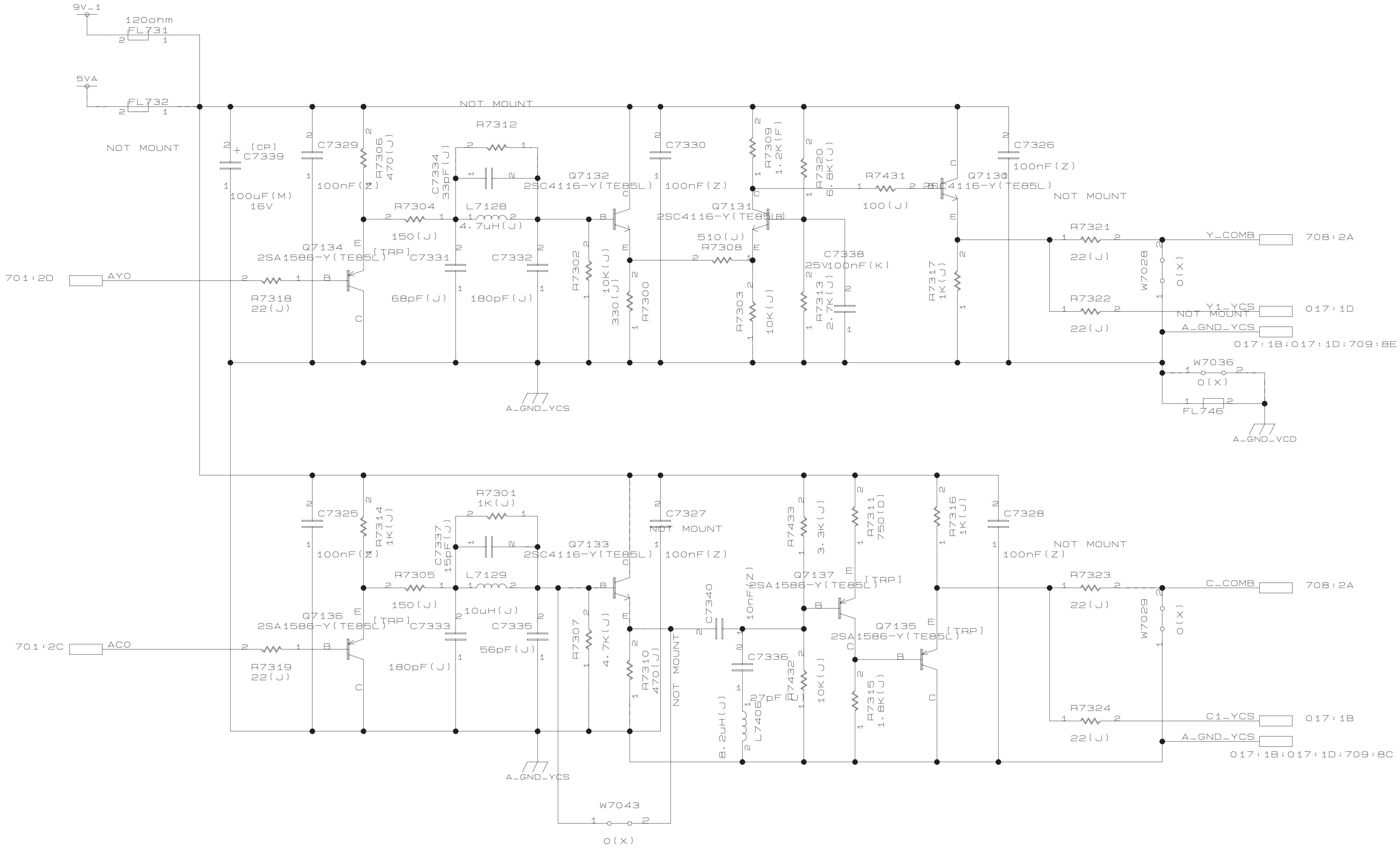
42WP46P
SCALER
3DYCS (7/9)

SH. NO.
707



42WP46P
SCALER
3DYCS (8/9)

SH. NO.
708



42WP46P
SCALER
3DYCS (9/9)

SH. NO.
709